ISSN 0168-9002

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH

Editor-in-Chief: Kai Siegbahn

Section A: accelerators, spectrometers, detectors and associated equipment

Editors: Kai Siegbahn & Erik Karlsson

MASTER INDEX

VOLUMES A301–A310

North-Holland

THIS INDEX COMPLETES VOLUME A310

A new International Journal in the interacting fields of
Cosmic Ray Physics, Astrophysics, Cosmology and Particle Physics

ASTROPARTICLE PHYSICS

EDITORIAL BOARD

V.S. Berezinsky
Laboratori Nazionali del Gran Sasso, Assergi, Italy

J. Ellis
Theory Division, CERN, Switzerland

T.K. Gaisser
Bartol Research Institute, University of Delaware, Newark, DE, U.S.A.

G. Giacomelli
Istituto di Fisica, Bologna, Italy

G. Raffelt
Max Planck-Institut für Physik, München, Germany

A.A. Watson
Dept. of Physics, University of Leeds, Leeds, U.K.

SUBSCRIPTION INFORMATION

The Journal will start publication in the Fall of 1992. The first issue is scheduled to appear in September 1992. Volume 1 in 4 issues (1992/1993) includes about 400 pages. Subscription price for volume 1: US $172.50/Dfl.316.00 (incl. postage & handling costs)

ISSN 0927-6505

AIMS AND SCOPE

ASTROPARTICLE PHYSICS will publish experimental and theoretical research papers focusing on new developments in the following areas:

- High-energy cosmic-ray physics and astrophysics;
- Particle cosmology;
- Particle astrophysics;
- Related astrophysics: supernova, AGN, cosmic abundances, dark matter, etc.
- High-energy, VHE and UHE gamma-ray astronomy;
- High- and low-energy neutrino astronomy
- Instrumentation and detector developments related to the above-mentioned fields.

INVITATION TO AUTHORS

ASTROPARTICLE PHYSICS invites the submission of papers suitable for publication. Detailed instructions are available upon request. Simply mark the appropriate box on the order form. *There are no page charges.*

ORDER FORM

ASTROPARTICLE PHYSICS

☐ Please send me a free specimen copy of the first issue.
☐ Please mail me a copy of the complete and detailed Instructions to Authors.
☐ Please enter my subscription to volume 1 of ASTROPARTICLE PHYSICS at US $172.50/Dfl.316.00
☐ Please put my name on your mailing list for future information regarding ASTROPARTICLE PHYSICS

Name _____

Address _____

_____

_____

Date _____ Signature _____

Send this form to:

NORTH-HOLLAND
(ELSEVIER SCIENCE PUBLISHERS)
Attn. H. de Brouwer, P.O. Box 103
1000 AC Amsterdam, The Netherlands

In the USA & Canada:
Elsevier Science Publishers
Journal Information Center
P.O. Box 882
Madison Square Station
New York, NY 10159, U.S.A

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH

Editor-in-Chief: Kai Siegbahn

Section A: accelerators, spectrometers, detectors and associated equipment

Editors: Kai Siegbahn & Erik Karlsson

MASTER INDEX

VOLUMES A301 – A310

NORTH-HOLLAND

Nuclear Instruments and Methods in Physics Research
North-Holland

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH
Section A

Author index to volumes A301–A310

Abdallah, C.T., see Johnson, W.J.D. A304 (1991) 364
Abdel-Aal, R.E., H.A. Al-Juwair and M.A. Al-Sunaidi, A computerized system for beam measurements and control at the KFUPM 350 kV ion accelerator A301 (1991) 489
Abdel-Aal, R.E., A versatile programmable CAMAC random pulse generator A309 (1991) 331
Abegg, R., M. Ahmad, D. Bandyopadhyay, J. Birchall, K. Chantzian toniou, C.A. Davis, N.E. Davison, P.P.J. Delheij, P.W. Green, L.G. Greeniaus, D.C. Healey, C. Lapointe, W.J. McDonald, C.A. Miller, G.A. Moss, S.A. Page, W.D. Ramsay, N.L. Rodning, G. Roy, W.T.H. van Oers, G.D. Wait, J.W. Watson and Y. Ye, Calibration of the polarization of a frozen spin target A306 (1991) 432
Ableev, V.G., S. Dzhemukhadze, V.P. Ershov, V.V. Fimushkin, B. Kühn, M.V. Kulikov, A.A. Nomofilov, L. Penchev, Yu.K. Pilipenko, N.M. Piskunov, V.I. Sharov, V.B. Shutov, I.M. Sitnik, E.A. Strokovsky, L.N. Strunov and S.A. Zaporozhets, B. Naumann, L. Naumann and S. Tesch, A deuteron polarimeter for polarized beams of relativistic energies A306 (1991) 73
Abramov, A.A., E.A. Alekseeva, S.F. Burachas, V.I. Glotov, A.I. Gorelov, A.I. Klimov, V.N. Mayorov, A.V. Martynov, E.A. Meleshko, A.G. Morozov, I.V. Morozov, L.V. Myasoedov, S.V. Oleynik, V.I. Rykalin, V.D. Ryzchikov, V.I. Selivanov, I.V. Sinitsyn, V.D. Torokhov and V.G. Vasil'chenko, Position-sensitive detector for γ-quanta for PET A302 (1991) 529
Ache, H.J., see Engelmann, U. A302 (1991) 345
Acosta, D., S. Buontempo, L. Calôba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, M. Fraternali, G. Fumagalli, V.G. Goggi, F.G. Hartjes, W. Hao, Th.H. Henkes, A. Henriques, L. Linssen, M. Livan, A. Maio, L. Mapelli, K.H. Meier, R.M. Mondardini, B. Ong, H.P. Paar, F. Pastore, M. Pereira, L. Poggioli, G. Polesello, C.V. Scheel, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thome, V. Vercesi, Y. Wang, R. Wigmans and C. Xu, Electron–pion discrimination with a scintillating fiber calorimeter A302 (1991) 36
Acosta, D., S. Buontempo, L. Calôba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, G. Fumagalli, G. Goggi, W. Hao, F.G. Hartjes, A. Henriques, L. Linssen, M. Livan, A. Maio, L. Mapelli, M.R. Mondardini, B. Ong, H.P. Paar, F. Pastore, M. Pereira, L. Poggioli, F. Riccardi, C.V. Scheel, J. Schmitz, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thome, V. Vercesi, Y. Wang, R. Wigmans and C. Xu, Localizing particles showering in a Spaghetti Calorimeter A305 (1991) 55
Acosta, D., S. Buontempo, L. Calôba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, G. Fumagalli, G. Goggi, W. Hao, F.G. Hartjes, A. Henriques, P. Jenni, L. Linssen, M. Livan, A. Maio, L. Mapelli, M.R. Mondardini, B. Ong, H.P. Paar, F. Pastore, L. Poggioli, G. Polesello, F. Riccardi, A. Rimoldi, C.V. Scheel, J. Schmitz, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thomé, V. Vercesi, Y. Wang, R. Wigmans, C. Xu and K. You, Electron, pion and multiparticle detection with a lead/scintillating-fiber calorimeter A308 (1991) 481
Acosta, D., S. Buontempo, L. Calôba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, G. Fumagalli, G. Goggi, W. Hao, F.G. Hartjes, A. Henriques, L. Linssen, M. Livan, A. Maio, L. Mapelli, M.R. Mondardini, B. Ong, H.P. Paar, F. Pastore, E. Pennacchio, L. Poggioli, G. Posello, F. Riccardi, A. Rimoldi, C.V. Scheel, J. Schmitz, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thomé, V. Vercesi, Y. Wang, R. Wigmans, C. Xu and K. You, On muon production and other leakage aspects of pion absorption in a lead/scintillating-fiber calorimeter A309 (1991) 143
Acton, P., G. Agnew, R. Cotton, S. Hedges, A.K. McKemey, M. Robbins, T. Roy, S.J. Watts, C.J.S. Damerell, R.L. English, A.R. Gillman, A.L. Lintern, D. Su and F.J. Wickens, Future potential of charge coupled devices as detectors of ionising radiation A305 (1991) 504
Adachi, T., see Kawakubo, T. A302 (1991) 397
Adam, A., see Massé, D. A309 (1991) 227
Adamo, A., see Bonazzola, G.C. A306 (1991) 305
Adamovich, M., see WA82 Collaboration A309 (1991) 401
Adams, T., N.J. DiGiacomo, B. Easom, H. Gordon, G. Guenterberg, K. Killian, P. Kroon, M. Lajczok, M. Marx, L. Mason, J. Pohlen, R. Watt and T. Wright, An engineering design study of a hermetic liquid argon calorimeter for the SSC A306 (1991) 128
Adamski, J., see Dowell, D.H. A304 (1991) 1

0168-9002/92/$05.00 © 1992 – Elsevier Science Publishers B.V. All rights reserved

Adamski, J., see Laucks, M.L. A304 (1991) 25
Adamski, J., see Dowell, D.H. A304 (1991) 336
Adamson, G.E., see Borden, M.J. A303 (1991) 63
Adarkar, H., S.R. Dugad, S.D. Kalmani, M.R. Krishnaswamy, N.K. Mondal, P.S. Murty, P. Nagaraj, V.S. Narasimham, L.V. Reddy, B. Satyanarayana, Y. Hayashi, N. Ito, S. Kawakami, T. Nakamura, K. Tanaka and S. Miyake, An automated monitoring environment for the Kolar Gold Fields nucleon decay experiment A308 (1991) 574
Ade, P.A.R., see Zammit, C.C. A310 (1991) 244
Adeva, B., P. Bagnaia, S. Banerjee, L. Barone, D. Boutigny, F. Bruyant, P. Cardenal, N. Colino, E. Gonzalez, M. Guanziroli, Y. Karyotakis, F. Linde, R. Mount, E. Nagy, L. Niessen, J. Perrier, M. Pieri, J. Rose, S. Shevchenko, A.A. Syed, I. Vorobiev and Y.F. Wang, The L3 database system A309 (1991) 318
Adinolfi, M., see WA84 Collaboration A310 (1991) 485
Adloff, J.C., see Rudolf, G. A307 (1991) 325
Adolf, A., P. Degond, F. Hermeline, J. Marilleau, P.A. Raviart and J. Segré, New PIC codes on unstructured meshes applied to the simulation of a photocathode injector A304 (1991) 297
Adriani, O., A. Arefiev, Q. An, T. Azemoon, T. Aziz, R.C. Ball, S. Banerjee, P. Blomeke, M. Capell, X. Cai, C. Chen, G.M. Chen, H.S. Chen, M.L. Chen, S.R. Chendvankar, C. Civinini, X. Cui, R. D'Alessandro, Yu. Galaktionov, E. Gallo, S.N. Ganguli, S. Goldfarb, Z.F. Gong, A. Gordeev, Yu. Gorodkov, A. Gurtu, H. Haan, H. Hofer, M.M. Ilyas, L.W. Jones, W. Karpinski, Yu. Kamyshkov, R. Khan, A. Klimentov, O. Kornadt, V. Koutsenko, V. Kumar, A. Kunin, P. Lecomte, P. LeCoultre, J. Lettry, H.T. Li, X.G. Li, Y.B. Lin, Y.S. Lu, K. Lubelsmeyer, A. Malinin, P.K. Malhotra, A. Marchionni, K. Mazumdar, M. Meschini, G.B. Mills, V. Morgunov, L. Niessen, D. Pandoulas, Y.J. Pei, M. Pieri, V. Plyaskin, V. Pojidaev, K. Qureshi, R. Raghavan, M. Rohner, B.P. Roe, S. Saran, A. Savin, S. Shevchenko, V. Shevchenko, A. Schultz von Dratzig, K. Shmakov, E. Shoumilov, V. Shoutko, G. Schwering, R. Siedling, B. Spiess, K. Sudhakar, X.W. Tang, E. Tarkovsky, S.C. Tonwar, K.L. Tung, J. Ulbricht, I. Vetlitsky, I. Vorobiev, M. Wadhawa, W. Wallraff, Y.F. Wang, R.J. Wu, S.W. Wu, Y.G. Wu, J.F. Zhou and A. Zichichi, Hadron calorimetry in the L3 detector A302 (1991) 53
Agahi, D., see Bartoszek, L. A301 (1991) 47
Aghamir, F., W.A. Barletta, D.B. Cline, J.W. Dodd, S.C. Hartman, T.C. Katsouleas, J. Kolonko, S. Park, C. Pellegrini, J.-C. Terrien, J.G. Davis, C.J. Joshi, N.C. Luhmann, D.B. McDermott, S.N. Ivanchenkov, Yu.Yu. Lachin and A.A. Varfolomeev, Saturnus: the UCLA high-gain infrared FEL project A304 (1991) 155
Agnew, G., see Acton, P. A305 (1991) 504
Aharonian, F.A., A.A. Chilingarian, A.K. Konopelko and A.V. Plyasheshnikov, A multidimensional analysis of the Cherenkov images of air showers induced by very high energy γ-rays and protons A302 (1991) 522
Ahmad, M., see Abegg, R. A306 (1991) 432
Ahrens, J., see Anthony, I. A301 (1991) 230
Ahrens, J., see Krause, K.-H. A310 (1991) 577
Airoldi, A., see Casagrande, F. A304 (1991) 439
Aite, K., P. Hári, W. Bijker and J. Middelhoek, Simulation, design and fabrication of large area implanted silicon two-dimensional position sensitive radiation detectors A305 (1991) 533
Aivazian, Yu.M., see Belyakov, V.A. A308 (1991) 73
Ajima, Y., see Kawakubo, T. A302 (1991) 397
Akbari, H., J. Bao, C-Y. Chien, H. Fenker, R. Fitzgerald, P. Fisher, M. Glaubman, A. Grimes, H. Hofer, I. Horvath, D. Kaplan, K. Lanius, I. Leedom, M. Macdermott, J. Mnich, D. Newman, J. Orndorff, A. Pevsner, S. Reucroft, J. Rose, J. Spangler, C. Spartiotis, F. Tonisch, G. Viertel, S. Waldmeier and L. Zehnder, A readout system for plastic scintillating fibers A302 (1991) 415
Akerlof, C., see Weaverdyck, C. A310 (1991) 690
Akesson, T., see Shank, J.T. A309 (1991) 377
Akhmedzhanov, S.M., see Artemiev, A.N. A308 (1991) 61
Akiba, T., see Mima, K. A304 (1991) 93
Akiba, T., see Ohigashi, N. A304 (1991) 476
Akiba, T., see Tsunawaki, Y. A304 (1991) 753
Akimoto, K., see Matsui, J. A303 (1991) 532
Akisada, M., see Umetani, K. A301 (1991) 579
Akiyama, M., see Hajima, R. A304 (1991) 230
Al-Juwair, H., see Naqvi, A.A. A306 (1991) 267
Al-Juwair, H.A., see Abdel-Aal, R.E. A301 (1991) 489
Al-Sunaidi, M.A., see Abdel-Aal, R.E. A301 (1991) 489
Albernhe, F., see Slassi-Sennou, A.S. A305 (1991) 200
Alburger, D.E., see Wesselborg, C. A302 (1991) 89
Alefeld, B., A. Kollmar, G. Badurek and G.M. Drabkin, Space–time focusing of polarized neutrons A306 (1991) 300

Aleksan, R., T. Bolognese, B. Equer, A. Karar and J.M. Reymond, Observation of single minimum ionising particles with amorphous silicon diodes A305 (1991) 512
Aleksandrov, Yu.M., I.L. Kuusmann, V.N. Makhov, S.B. Mirov, T.V. Uvarova and M.N. Yakimenko, Intrinsic and impurity cross-luminescence in three-component barium-containing compounds A308 (1991) 208
Alekseev, G.D., Yu.Ye. Bonushkin, S. Czellar, B. Fialovszki, B.A. Khomenko, N.N. Khovansky, A.V. Korytov, P.A. Kulinich, M. Lokajiček, G.D. Mitselmakher, J. Patočka, V.D. Ryabtsov, J. Řidký, Yu.V. Sedykh, V.V. Tokmenin, R. Toledo and E. Tarjan, The results of mass testing of the plastic streamer tubes for the DELPHI hadron calorimeter A305 (1991) 344
Alekseev, V.I. and E.G. Bessonov, On some methods of generating circularly polarized hard undulator radiation A308 (1991) 140
Alekseeva, E.A., see Abramov, A.A. A302 (1991) 529
ALEPH Collaboration, D. Decamp et al., A detector for electron–positron annihilations in LEP, Nucl. Instr. and Meth. A294 (1990) 121–178 (*Erratum*) A303 (1991) 393
Alexandropoulos, N.G., Fundamentals of inelastically scattered X-ray synchrotron radiation as a probe for the electronic structure of condensed matter A308 (1991) 267
Alexandropoulos, N.G., H.J. Juretschke, D. McWhan and K.T. Kotsis, Rocking curves structure in the vicinity of an n-beam interaction point A308 (1991) 282
Alexandrov, A.A., I.A. Alexandrova, S.L. Podshibyakin, Y.V. Pyatkov, A.I. Slyusarenko, A.N. Shemetov and R.A. Shehmametiev, Energy calibration of the time-of-flight fission fragments spectrometer A302 (1991) 478
Alexandrov, A.A., I.A. Alexandrova, A.V. Ermolenko, Yu.A. Korjuk, D.S. Nikulin, Yu.F. Pevchev, S.L. Podshibyakin, Yu.V. Pyatkov, S.I. Sitnikov, A.I. Slyusarenko, A.N. Shemetov, R.A. Shehmametiev and N.N. Demidovitch, A time-of-flight spectrometer for unslowed fission fragments A303 (1991) 323
Alexandrov, Y., see WA82 Collaboration A309 (1991) 401
Alexandrov, Yu.M., D.A. Fedin, R.V. Fedorchuk, M.O. Koshevoi, I.V. Kozhevnikov, V.A. Murashova, T. Pisarzyk, A.A. Rupasov, A.S. Shikanov, M.N. Yakimenko and A.V. Vinogradov, Grazing-incidence cylindric mirror with multiple reflection for the soft X-ray spectral range A308 (1991) 340
Alexandrov, Yu.M., K. Eidmann, D.A. Fedin, R.V. Fedorchuk, M.O. Koshevoi, V.A. Murashova, A.A. Rupasov, A.S. Shikanov, M.R. Shpol'sky and M.N. Yakimenko, Investigation of sensitometric characteristics of X-ray photoemulsions in the spectral range of 15–80 Å A308 (1991) 343
Alexandrova, I.A., see Alexandrov, A.A. A302 (1991) 478
Alexandrova, I.A., see Alexandrov, A.A. A303 (1991) 323
Alkhazov, G.D., L.Kh. Batist, A.A. Bykov, V.D. Vitman, V.S. Letokhov, V.I. Mishin, V.N. Panteleyev, S.K. Sekatsky and V.N. Fedoseyev, Application of a high efficiency selective laser ion source at the IRIS facility (*Letter to the Editor*) A306 (1991) 400
Allegretti, F., R. Caciuffo, F. de Notaristefani, F. Ferroni, O. Francescangeli, G. Majni, M. Mattioli and D. Rinaldi, Characterization by γ-ray diffractometry of the mosaic structure of $Bi_4Ge_3O_{12}$, $Bi_{12}GeO_{20}$ and BaF_2 crystals A302 (1991) 455
Alley, G.T., see Kennedy, E.J. A307 (1991) 452
Allinson, N.M., D.W.E. Allsopp, J.A. Quayle and B.G. Magorrian, Effects of soft X-ray irradiation on solid-state imagers A310 (1991) 267
Allison, J., P. Ashton, J.T.M. Baines, R.J. Barlow, J.T.M. Chrin, O.W. Davies, I.P. Duerdoth, P.S. Hinde, J.N. Banks, R.E. Hughes-Jones, G.D. Lafferty, F.K. Loebinger, A.A. Macbeth, M.W. Moss, P.G. Murphy, A. O'Dowd, S.J. Pawley and K. Stephens, The diamond shaped cathode pads of the OPAL muon barrel drift chambers A310 (1991) 527
Allport, P.P., J.R. Carter, V. Gibson, M.J. Goodrick, J.C. Hill, S.G. Katvars, M.A. Bullough, N.M. Greenwood, A.D. Lucas, C.D. Wilburn, A.A. Carter, T.W. Pritchard, L. Nardini, P. Seller and S.L. Thomas, FOXFET biassed microstrip detectors A310 (1991) 155
Allsopp, D.W.E., see Allinson, N.M. A310 (1991) 267
Almehed, S., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Alrutz-Ziemssen, K., J. Auerhammer, H. Genz, H.-D. Gräf, A. Richter, J. Töpper and H. Weise, Status of the Darmstadt near-infrared free electron laser project A304 (1991) 159
Alrutz-Ziemssen, K., J. Auerhammer, H. Genz, H.-D. Gräf, A. Richter, J. Töpper and H. Weise, The high current injection for the Darmstadt near infrared free electron laser A304 (1991) 300
Alsmiller, F.S., see Alsmiller Jr., R.G. A306 (1991) 500
Alsmiller Jr, R.G. and F.S. Alsmiller, Low-energy particle production and transport for 200 GeV/c protons in iron and comparisons with experimental data A306 (1991) 500
Altieri, S., see Audit, G. A301 (1991) 473
Alverson, G., see Bromberg, C. A307 (1991) 292
Alvisi, C., G. Anzivino, F. Arzarello, G. Barbagli, G. Bari, M. Basile, L. Bellagamba, D. Boscherini, G. Bruni, P. Bruni, U. Camerini, G. Cara Romeo, G. Castellini, M. Chiarini, L. Cifarelli, F. Cindolo, F. Ciralli, A. Contin, M. Costa, S. D'Auria, C. Del Papa, S. De Pasquale, F. Fiori, A. Forte, F. Frasconi, P. Giusti, G.

Iacobucci, G. Laurenti, B. Lisowski, G. Maccarrone, A. Margotti, T. Massam, R. Nania, V. O'Shea, F. Palmonari, P. Pelfer, R. Pilastrini, S. Qian, G. Sartorelli, M. Schioppa, G. Susinno, R. Timellini and A. Zichichi, The ZEUS vertex detector: design and prototype A305 (1991) 30
Amako, K., see Oyama, T. A305 (1991) 71
Ambrosio, M., G.C. Barbarino, F. Guarino, G. Osteria and L. Satta, Strip readout electronics for the MACRO experiment A301 (1991) 275
Amemiya, Y., see Ito, M. A310 (1991) 369
Amian, W., see Drake, D.M. A309 (1991) 575
Amir, A., J.F. Knox-Seith and M. Warden, Bandwidth narrowing of the UCSB FEL by injection seeding with a cw laser A304 (1991) 12
Amitin, Ye.B., see Mazalov, L.N. A308 (1991) 230
Amos, N.A., see Anderson, D.F. A309 (1991) 69
An, Q., see Adriani, O. A302 (1991) 53
Anagnostopoulos, A., see Gress, J. A302 (1991) 368
Anashin, V.V., E.I. Gorniker, N.G. Gavrilov, V.N. Korchuganov, G.N. Kulipanov, E.A. Kuper, G.Ya. Kurkin, V.S. Kuzminykh, E.B. Levichev, Yu.G. Matvejev, A.S. Medvedko, V.N. Osipov, S.P. Petrov, V.M. Petrov, A.N. Skrinsky, E.M. Trakhtenberg, V.A. Ushakov, A.G. Valentinov, V.G. Veshcherevich, P.D. Vobly and N.I. Zubkov, TNK – synchrotron radiation source for submicron technology applications A308 (1991) 45
Anashin, V.V., L.G. Isaeva, E.P. Kollerov, V.N. Korchuganov, G.N. Kulipanov, V.N. Mnev, V.E. Panchenko, E.M. Trakhtenberg and V.A. Ushakov, Beam lines at the TNK SR source A308 (1991) 50
Anashin, V.V., V.S. Kuzminych, E.M. Trakhtenberg and A.A. Zholents, Synchrotron radiation absorber for high density loads A308 (1991) 467
Andersen, E., P.D. Barnes, B. Castano, M. Cherney, M. Cohler, B. de la Cruz, G.E. Diebold, B. Dulny, C. Fernandez, G. Franklin, R. Frühwirth, C. Garabatos, J.A. Garzon, W.M. Geist, A. Gomez, D. Greiner, C. Gruhn, M. Hafidouni, J. Hrubec, P.G. Jones, E. Judd, J.P.M. Kuipers, P. Ladron de Guevara, M. Ladrem, D. Liko, S. Lopez-Ponte, G. Lovhoiden, J. MacNaughton, A. Michalon, M.E. Michalon-Mentzer, J. Mosquera, Z. Natkaniec, J.M. Nelson, G. Neuhofer, C. Perez de los Heros, M. Plo, B. Powell, B. Quinn, A. Ramil, M. Regler, H. Rohringer, I. Sakrejda, R. Schumacher, D. Stampfer, T. Thorsteinsen, J. Traxler, A. Yanez, P. Yepes and R. Zybert, Determination of the primary vertex position in the NA36 experiment . . . A301 (1991) 69
Andersen, J.N., see Ausmees, A. A308 (1991) 219
Anderson, D., see Elias, L.R. A304 (1991) 219
Anderson, D.F., see Xi, J. A301 (1991) 219
Anderson, D.F., see Hoeneisen, B. A302 (1991) 447
Anderson, D.F. and N.A. Amos, Prospects for using photosensitive dopants to improve the e/π ratio of liquid argon calorimeters A309 (1991) 69
Anderson, D.F., see Kwan, S. A309 (1991) 190
Anderson, L.W., see Tanaka, M. A302 (1991) 460
Andersson, I., see Clifton, I.J. A303 (1991) 476
Andersson, M., see Hietanen, I. A301 (1991) 116
Andersson, M., see Hietanen, I. A305 (1991) 173
Andersson, M., see Hietanen, I. A310 (1991) 671
Andersson, M., see Hietanen, I. A310 (1991) 677
Ando, A., see Tanabe, T. A307 (1991) 7
Ando, M., see Sakai, N. A303 (1991) 488
Andresen, A., see ZEUS Calorimeter Group A309 (1991) 101
Andronova, N.V., see Kotrbova, M. A308 (1991) 456
Anevsky, S.I., A.E. Vernyi, V.S. Panasyuk and V.B. Khromchenko, Improvements of the TROLL-2 synchrotron and new developments A308 (1991) 35
Anevsky, S.I., A.E. Vernyi, D.A. Gonyukh, T.V. Kazachevskaya, I.V. Konev, V.I. Sapritsky, V.B. Khromchenko and Yu.N. Tsigel'nitskii, Calibration of the absolute spectral sensitivity of a solar UV radiometer with the use of synchrotron radiation A308 (1991) 165
Angelini, C., see WA84 Collaboration A310 (1991) 485
Angelini, F., see Cresti, M. A306 (1991) 563
Angelov, T., B. Bertucci, S. Falciano, M. Fukushima, D. Linnhöfer, B. Martin and G. Medici, Performances of the central L3 Data Acquisition system A306 (1991) 536
Anghinolfi, M., see Mazzaschi, L. A305 (1991) 391
Anghinolfi, M., see Ricco, G. A307 (1991) 374
Anghinolfi, M., see Gervino, G. A309 (1991) 497
Angles, J.M., see Launspach, J. A304 (1991) 368
Angles, M., see Launspach, J. A304 (1991) 368
Anno, I., see Umetani, K. A301 (1991) 579

Anthony, I., J.D. Kellie, S.J. Hall, G.J. Miller and J. Ahrens, Design of a tagged photon spectrometer for use with the Mainz 840 MeV microtron A301 (1991) 230
Anthouard, P., see Bardy, J. A304 (1991) 311
Anthouard, P., see Launspach, J. A304 (1991) 368
Antillón, A. and B. Hoeneisen, Emittance of a nonlinear machine: the two-dimensional problem A305 (1991) 239
Antillón, A., E. Forest, B. Hoeneisen and F. Leyvraz, Transport matrices for nonlinear lattice functions A305 (1991) 247
Antinori, F., see WA82 Collaboration A309 (1991) 401
Antinori, F., see WA84 Collaboration A310 (1991) 485
Anton, G., J. Arends, W. Beulertz and J. Hey, Amadeus – a new type of large area scintillation detector with position-, energy- and time-of-flight determination A310 (1991) 631
Antoniazzi, L., G. Bressi, G. Introzzi, A. Lanza, G. Liguori, R. Nardò, P. Torre, P. Creti, E. Gorini, F. Grancagnolo and M. Panareo, Resistive plate counters readout system A307 (1991) 312
Antonioli, P., W. Fulgione, P. Galeotti and L. Panaro, Simulation of low-energy neutrino interactions in liquid scintillation counters A309 (1991) 569
Antonov, A.A., V.B. Baryshev, I.G. Grigoryeva, G.N. Kulipanov and N.N. Shchipkov, Focusing shaped pyrographite monochromators in synchrotron radiation experiments A308 (1991) 442
Antonsen, T.M., see Colson, W.B. A304 (1991) 822
Antonsen Jr., T.M., see Bidwell, S.W. A304 (1991) 187
Antonsen Jr., T.M., see Stanford, E.R. A304 (1991) 659
Antonuk, L.E., see Cameron, J.M. A305 (1991) 257
Antonuk, L.E., J. Yorkston, J. Boudry, M.J. Longo and R.A. Street, Large area amorphous silicon photodiode arrays for radiotherapy and diagnostic imaging A310 (1991) 460
Antoš, J., J. Bán, J. Ferencei, P. Muríň, J. Špalek, P. Štefan, J. Cvach, I. Herynek, J. Hladký, V. Kohl, V. Šimák, P. Staroba, J. Strachota, P. Závada, Š. Valkár, A. Valkárová and J. Žáček, Manufacture of readout boards for a liquid argon calorimeter A302 (1991) 277
Anykeyev, V.B., A.A. Spiridonov and V.P. Zhigunov, Comparative investigation of unfolding methods A303 (1991) 350
Anzalone, A., A. Badalá, R. Barbera, L. Calabretta, A. Palmeri, G.S. Pappalardo, F. Riggi and A.C. Russo, Study of the CLAMSUD magnetic spectrometer focal plane by a simulation code A308 (1991) 533
Anzivino, G., see Alvisi, C. A305 (1991) 30
Apel, P.Yu., see Mitrofanov, A.V. A308 (1991) 347
Aprile, E., R. Mukherjee and M. Suzuki, Performance of a liquid xenon ionization chamber irradiated with electrons and gamma-rays A302 (1991) 177
Aprile, E., R. Mukherjee and M. Suzuki, Ionization of liquid xenon by ^{241}Am and ^{210}Po alpha particles A307 (1991) 119
Aprile, E., see Masuda, K. A309 (1991) 489
Apsimon, R., see UA1 Collaboration A305 (1991) 331
Arai, I., see Nagasaka, Y. A301 (1991) 109
Arai, Y. and S. Uehara, High-speed data acquisition and filtering with a FASTBUS master module A301 (1991) 497
Arakida, Y., see Kawakubo, T. A306 (1991) 426
Ardelean, J., R.L. Chase and A. Hrisoho, A proposed pixel detector based on floating base transistors A305 (1991) 549
Arefiev, A., see Adriani, O. A302 (1991) 53
Arends, J., M. Breuer, H.D. Dahmen, P. Detemple, W. Schneider, D. Urban and B. Zucht, Beam profile monitors for a tagged photon beam facility A306 (1991) 89
Arends, J., see Anton, G. A310 (1991) 631
Aristov, V.V., Yu.A. Basov, A.A. Snigirev, V.A. Yunkin, T. Ishikawa and S. Kikuta, Optical properties of a phase linear Bragg–Fresnel lens A308 (1991) 413
Armijo, V., K. Black, R.D. Bolton, S. Carius, M.D. Cooper, C. Espinoza, G. Hart, G.E. Hogan, G. Ludwig, R.E. Mischke, L. Piilonen, S. Stanislaus, J. Sandoval, D.A. Whitehouse, C. Wilkinson and C.C.H. Jui, A fast MWPC with cathode strips and utilizing CF_4–isobutane A303 (1991) 298
Armstrong, T.A., see Bartoszek, L. A301 (1991) 47
Arndt, U.W., Second-generation X-ray television area detectors A310 (1991) 395
Arnold, W., see Frommhold, Th. A310 (1991) 657
Aronsson, D., see Drozdowicz, K. A306 (1991) 315
Aronsson, D., see Elevant, T. A306 (1991) 331
Arpesella, C., see Fréjus Collaboration A302 (1991) 406
Arroyo, C.G., see King, B.J. A302 (1991) 254
Artemiev, A.N., S.M. Akhmedzhanov, A.A. Vasilyev, G.M. Gritsuk, A.V. Dozorov, Yu.V. Doronkin, A.V. Zabelin, M.N. Klimenko, S.A. Kotov, Yu.V. Krylov, V.A. Lebedev, A.V. Lipilin, I.M. Nagornyh, O.N. Nikulin, D.G. Odintsov, S.D. Pashkov, S.G. Pesterev, V.K. Prosvetov, V.N. Rybakov, M.M. Samorukov, V.A. Treshchin, V.L. Ushkov, A.R. Tsup, E.M. Chaikin and Yu.L. Yupinov, The SIBERIA dedicated synchrotron radiation source: status report on the storage rings complex at the Kurchatov Institute for Atomic Energy A308 (1991) 61

Artemiev, A.N. and S.D. Fanchenko, On the SIBERIA SR facility research proposals A308 (1991) 66
Artemiev, A.N., A.V. Barkov, A.I. Chechin, A.V. Dudarev, Yu.V. Krylov and N.V. Smolyakov, The multipole superconducting wiggler for the SIBERIA-2 storage ring A308 (1991) 77
Artemiev, A.N., A.V. Avaev and O.V. Sinyansky, Distributed SR receiver for the strong-field superconducting wavelength shifter of the SIBERIA-2 storage ring A308 (1991) 405
Artemiev, A.N., S.V. Krupin, V.D. Podshibyakin, A.D. Kharitonov and A.A. Yagudin, Precision positioning devices A308 (1991) 459
Artemiev, V.A., E.V. Brakchman, M.A. Ivanovsky, A.K. Karelin, V.V. Kirichenko, V.M. Knyazev, O.M. Kozodaeva, V.A. Lubimov, A.I. Mitin, V.P. Nikolaev, T.N. Tsvetkova and O.Ya. Zeldovich, The ^{136}Xe double-beta-decay track experiment A303 (1991) 309
Artukh, A.G., Y.L. Obukhov, V.A. Stchepunov, M.G. Nagayenko, Y.P. Severgin, V.A. Titov, V.S. Belavenko and I.N. Vishnievski, The magnetic channel designed for separating beams of radioactive nuclei COMBAS A306 (1991) 123
Arvieux, J., see Cameron, J.M. A305 (1991) 257
Arzarello, F., see Alvisi, C. A305 (1991) 30
Asakura, H., see Murakami, A. A301 (1991) 435
Asami, H., see Kato, S. A307 (1991) 213
Ashton, P., see Allison, J. A310 (1991) 527
Aspell, P., see Nygård, E. A301 (1991) 506
Asseev, A.A., M.D. Bavizhev, E.A. Ludmirsky, V.A. Maisheev and Yu.S. Fedotov, Extraction of the 70 GeV proton beam from the IHEP accelerator towards beam line 2(14) with a bent single crystal A309 (1991) 1
Astbury, A., R.K. Keeler, Y. Li, P.R. Poffenberger and L.P. Robertson, The electronic response of 2,2,4,4 tetramethylpentane to minimum ionizing particles A305 (1991) 376
Attias, H., see Ross, W. A310 (1991) 493
Atwood, W.B., T. Barczewski, L.A.T. Bauerdick, L. Bellantoni, E. Blucher, W. Blum, J. Boudreau, O. Boyle, D. Cinabro, J. Conway, G. Cowan, D.F. Cowen, I. Efthymiopoulos, P. Faure, Z. Feng, F. Fidecaro, B. Gobbo, A.W. Halley, S. Haywood, A. Jahn, R.C. Jared, R.P. Johnson, M. Kasemann, K. Kleinknecht, B. Leclaire, I. Lehraus, B. Lofstedt, T. Lohse, D. Lueke, A. Lusiani, P.S. Marrocchesi, J. May, T.C. Meyer, F. Morsani, A. Minten, J. Pater, D. Pollmann, M. Price, R. Richter, W. Richter, S. Roehn, L. Rolandi, A. Roth, H. Rotscheidt, D. Schlatter, M. Schmelling, H. Schmidt, J. Schroeder, R. Settles, F. Steeg, G. Stefanini, U. Stierlin, M. Takashima, W. Tejessy, I. Ten Have, J. Thomas, A. Vayaki, J. Wear, W. Wiedenmann, W. Witzeling and S.L. Wu, Performance of the ALEPH Time Projection Chamber A306 (1991) 446
Aubert, B., see RD3 Collaboration A309 (1991) 438
Auchampaugh, G.F., see Feldman, W.C. A306 (1991) 350
Aucouturier, J., J.P. De Brion and H. Leboutet, Layout of the ELSA U-turn A304 (1991) 305
Audet, S.A., see Schooneveld, E.M. A305 (1991) 581
Audet, S.A., see Wouters, S.E. A305 (1991) 608
Audit, G., A. Bloch, N. D'Hose, V. Isbert, J. Martin, R. Powers, D. Sundermann, G. Tamas, P.A. Wallace, S. Altieri, A. Braghieri, F. Fossati, P. Pedroni, T. Pinelli, J. Bechade, P.H. Carton, S. Conat, D. Foucaud and M. Goldsticker, DAPHNE: a large-acceptance tracking detector for the study of photoreactions at intermediate energies A301 (1991) 473
Auerhammer, J., see Alrutz-Ziemssen, K. A304 (1991) 159
Auerhammer, J., see Alrutz-Ziemssen, K. A304 (1991) 300
Auerswald, G., see Zschech, E. A308 (1991) 255
Ausmees, A., M. Elango, E. Nõmmiste, J.N. Andersen, R. Nyholm and I. Martinson, Secondary photoelectron spectra of ionic solids as a function of the incident photon energy A308 (1991) 219
Avaev, A.V., see Artemiev, A.N. A308 (1991) 405
Avasthi, D.K., Jaipal and S. Gargari, Stripper foil development at the NSC target laboratory A303 (1991) 43
Avset, B.S., see Roe, S. A310 (1991) 192
Avset, B.S., see Hubbeling, L. A310 (1991) 197
Avset, B.S., L. Evensen, G. Hall, S. Roe and R. Wheadon, Practical limitations to the performance of silicon drift chambers imposed by material quality A310 (1991) 203
Ayres, R.L., see Debenham, P.H. A304 (1991) 208
Äystö, J., see Parmonen, J.M. A306 (1991) 504
Azemoon, T., see Adriani, O. A302 (1991) 53
Aziz, T., see Adriani, O. A302 (1991) 53

Baba, H., A. Yokohama, Y. Sakuraba, N. Nitani, T. Saito and S. Baba, Systematic treatment of the photopeak efficiency A309 (1991) 236
Baba, S., see Baba, H. A309 (1991) 236
Babichev, E.A., S.E. Baru, A.G. Khabakhpashev, G.M. Kolachev, G.A. Savinov, L.I. Shekhtman, V.A. Sidorov and A.I. Volobuev, Digital radiographic scanning installation with multiwire proportional chamber A310 (1991) 449

Babusci, D., E. Cima, M. Iannarelli, E. Turri, F. Basti, I. Halpern, L. Casano, A. D'Angelo, D. Moricciani, P.G. Picozza, C. Schaerf and B. Girolami, Taladon: a polarized and tagged gamma ray beam A305 (1991) 19
Babusci, D., see Mazzaschi, L. A305 (1991) 391
Bacchiocchi, G., see Bellini, G. A305 (1991) 395
Bacci, C., A. Bezaguet, D. Bloess, A. Caner, F. Cavanna, F.J. Diez-Hedo, D. Drijard, L. Dumps, H. Evans, A. Ferrando, A. Givernaud, A. Gonidec, M.I. Josa, M. Krammer, M.A. Marquina, G. Maurin, K. Morgan, R.C. Muñoz, L. Naumann, P. Nedelec, E. Petrolo, A. Placci, L. Pontecorvo, E. Radermacher, D. Robinson, T. Rodrigo, C. Rubbia, J.M. Salicio, D. Schinzel, C. Seez, C. Stubenrauch, H. Teykal, E. Torrente-Lujan, A. Tusi, O. Ullaland, S. Veneziano, T.S. Virdee and V. Vuillemin, UA1 Collaboration, Performance of a semi-octagonal-shaped uranium/tetramethylpentane calorimeter A301 (1991) 445
Bacci, C., see UA1 Collaboration A305 (1991) 331
Bacci, C., F. Evangelisti, P. Fiorini, C. Furetta, F. Meddi, A. Mittiga and M. Sebastiani, Detection of strongly ionizing particles with a hydrogenated amorphous silicon detector A306 (1991) 182
Bachelier, D., see Cameron, J.M. A305 (1991) 257
Bachmann, K.T., see King, B.J. A302 (1991) 254
Backenstoss, G., H. Breuer, H. Döbbeling, M. Furić, P.A. Gram, A. Hoffart, C.H.Q. Ingram, A. Klein, B. Kotliński, G.S. Kyle, K. Michaelian, S. Mukhopadyay, T. Petković, R.P. Redwine, D. Rowntree, R.A. Schumacher, U. Sennhauser, N. Šimičević, F.D. Smit, G. van der Steenhoven, D.R. Tieger, H. Ullrich, M.H. Wang, H.J. Weyer, M. Wildi and K.E. Wilson, LADS – large acceptance detector system for pion–nucleus reactions A310 (1991) 518
Badalá, A., R. Barbera, A. Palmeri, G.S. Pappalardo, F. Riggi and A.C. Russo, A study for the use of the LNS Crystal Ball multidetector as a neutral pions spectrometer A306 (1991) 283
Badalá, A., see Anzalone, A. A308 (1991) 533
Badgett, W., R. Ball, Y. Cha, J. Chapman, R.A. Dunn, R. Gustafson, M. Krasberg and R. Thun, Performance of a fast, highly segmented electromagnetic calorimeter A307 (1991) 231
Badura, A., H.J. Besch, D. Bornstein, J. Dangendorf, A. Sack, A.H. Walenta and H. Schüller, An imaging γ-ray detector with scatter rejection for beam position control in radiotherapy A310 (1991) 441
Badurek, G., see Alefeld, B. A306 (1991) 300
Badurek, G., A. Kollmar, A. Seeger and W. Schalt, Use of a Drabkin spin resonator in inverted geometry neutron time-of-flight spectroscopy A309 (1991) 275
Baglin, C., see Nastoll, H. A306 (1991) 65
Bagnaia, P., see Adeva, B. A309 (1991) 318
Bagrov, V.G., G.I. Flesher and P.V. Strokov, Non-pointlike particle radiation in classical electrodynamics ... A308 (1991) 89
Bahnsen, A., see Budtz-Jørgensen, C. A310 (1991) 82
Bähr, J., E. Birckner, A. Capone, D. DePedis, W. Flegel, B. Friend, M. Gruwe, K. Hiller, P. Lendermann, C. Mommaert, R. Nahnhauer, E. Pesen, G. Stefanini, G. Wilquet, K. Winter and V. Zacek, Liquid scintillator filled capillary arrays for particle tracking A306 (1991) 169
Bailey, M., see Croft, S. A302 (1991) 315
Baines, J.T.M., see Allison, J. A310 (1991) 527
Baisin, L., see RD3 Collaboration A309 (1991) 438
Baker, C., see Hylen, J. A310 (1991) 497
Baker, S.C., see Barker, P.H. A306 (1991) 272
Baker, W., see Bromberg, C. A307 (1991) 292
Bakker, R.J., see van Amersfoort, P.W. A304 (1991) 163
Bakker, R.J., C.A.J. van der Geer, A.F.G. van der Meer, P.W. van Amersfoort and G. Saxon, Commissioning the FELIX bunching system A304 (1991) 173
Bakker, R.J., C.A.J. van der Geer, A.F.G. van der Meer, P.W. van Amersfoort, W.A. Gillespie and G. Saxon, 1 GHz modulation of a high-current electron gun A307 (1991) 543
Bakker, R.J., see Van der Geer, C.A.J. A307 (1991) 553
Baksay, L., S. Lőkös, R. Magahiz, Gy.L. Bencze, Z. Fodor, A. Bujak and K. Banicz, Apparatus for precise drift time change measurements by means of photoelectrons emitted from the cathode A310 (1991) 607
Baldini, A., C. Bemporad, F. Cei, G. Giannini, R. Pazzi and M. Grazzi, The use of the reaction $^{9}Be(\alpha, \gamma n)^{12}C$ to determine the energy scale and the efficiency at low energies of stellar collapse neutrino detectors A305 (1991) 475
Balerna, A., E. Bernieri, E. Burattini, A. Kuzmin, A. Lusis, J. Purans and P. Cikmach, EXAFS studies of MeO_{3-x} (Me = W, Mo, Re, Ir) crystalline and amorphous oxides A308 (1991) 234
Balerna, A., E. Bernieri, E. Burattini, A. Kuzmin, A. Lusis, J. Purans and P. Cikmach, XANES studies of MeO_{3-x} (Me = W, Re, Ir) crystalline and amorphous oxides A308 (1991) 240
Ball, G.C., see Galindo-Uribarri, A. A301 (1991) 457
Ball, R., see Badgett, W. A307 (1991) 231
Ball, R.C., see Adriani, O. A302 (1991) 53
Balleyguier, P., see Dei-Cas, R. A304 (1991) 215

Balleyguier, P., J.P. Blésés, A. Bloquet, C. Bonetti, J.P. De Brion, J. Brisset, R. Dei-Cas, J. Di Crescenzo, P. Fourdin, G. Haouat, R. Joly, S. Joly, C. Laspalles, J.P. Laget, H. Leboutet, F. Schumann, S. Striby and J. Vouillarmet, Production of high-brightness electron beams for the ELSA-FEL A304 (1991) 308
Baltensperger, U., see Gäggeler, H.W. A309 (1991) 201
Baltrusaitis, R.M., see Morgan, G.L. A308 (1991) 544
Bamberger, A., see ZEUS Calorimeter Group A309 (1991) 101
Bamford, D.J. and D.A.G. Deacon, Self-mode-locked oscillator–amplifier FEL configuration A304 (1991) 667
Bán, J., see Antoš, J. A302 (1991) 277
Ban, S., see Nakashima, H. A310 (1991) 696
Bandyopadhyay, A., see Roy, A. A303 (1991) 342
Bandyopadhyay, D., see Abegg, R. A306 (1991) 432
Banerjee, S., see Adriani, O. A302 (1991) 53
Banerjee, S., see Adeva, B. A309 (1991) 318
Banicz, K., see Baksay, L. A310 (1991) 607
Banks, J.N., see Allison, J. A310 (1991) 527
Bao, J., see Akbari, H. A302 (1991) 415
Barasch, E.F., see Simon-Gillo, J. A309 (1991) 427
Barbagelata, L., M. Grattarola, A. Matrone, G. Ottonello, F. Rosatelli, F. Ciocci, G. Gallerano, A. Renieri and E. Sabia, Advanced concepts in mechanical design and computerized control system for a hybrid permanent magnet undulator A304 (1991) 703
Barbagli, G., see Alvisi, C. A305 (1991) 30
Barbarino, G.C., see Ambrosio, M. A301 (1991) 275
Barbera, R., see Badalá, A. A306 (1991) 283
Barbera, R., see Anzalone, A. A308 (1991) 533
Barberis, D., see WA82 Collaboration A309 (1991) 401
Barbosa, A.F., C. Boulin, A. Gabriel, F. Golding, P. Leyendecker and C. Riekel, A VME based data acquisition system for a 2D-gasfilled detector A302 (1991) 489
Barczewski, T., see Atwood, W.B. A306 (1991) 446
Bardy, J., see Bottollier-Curtet, H. A304 (1991) 197
Bardy, J., P. Eyharts, P. Anthouard, P. Eyl, J. Labrouche, J. Launspach, P. Le Taillandier, J. de Mascureau and M. Thevenot, Design and initial operation of LELIA induction accelerator A304 (1991) 311
Bardy, J., see Launspach, J. A304 (1991) 368
Bareyre, P., see Fréjus Collaboration A302 (1991) 406
Bargende, A., see ZEUS Calorimeter Group A309 (1991) 101
Barger, K., see Ross, W. A310 (1991) 493
Bari, G., see Alvisi, C. A305 (1991) 30
Barker, P.H., S.C. Baker, S.A. Brindhaban and M.J. Brown, Some aberration and other properties of an Enge split-pole spectrograph A306 (1991) 272
Barker, P.H., see Kroupa, M.A. A310 (1991) 649
Barkhuff, D.H., see Lourie, R.W. A306 (1991) 83
Barkov, A.V., A.V. Dudarev, V.V. Egorov, V.E. Keilin, O.V. Pavlov and A.V. Stepanenko, A 10 T superconducting shifter for the "SIBERIA-2" storage ring A308 (1991) 70
Barkov, A.V., see Artemiev, A.N. A308 (1991) 77
Barletta, W.A., see Aghamir, F. A304 (1991) 155
Barloutaud, R., see Fréjus Collaboration A302 (1991) 406
Barlow, R.J., see Allison, J. A310 (1991) 527
Barnes, C.A., see Smith, M.S. A306 (1991) 233
Barnes, P.D., see Andersen, E. A301 (1991) 69
Barone, L., see Adeva, B. A309 (1991) 318
Barreiro, F., see ZEUS Calorimeter Group A309 (1991) 101
Barret, D. and P. Laurent, Calibration of detectors for soft gamma-ray astronomy: the Monte Carlo approach applied to the SIGMA telescope A307 (1991) 512
Barry, J., see Squire, J.M. A310 (1991) 349
Barry, W., A general analysis of thin wire pickups for high frequency beam position monitors A301 (1991) 407
Barstow, M.A., see Fraser, G.W. A310 (1991) 292
Barsukov, V.P., I.P. Dolbnya, Yu.M. Kolokolnikov, S.G. Kurylo, N.A. Mezentsev, V.F. Pindyurin and M.A. Sheromov, X-ray monochromator for digital subtraction angiography using synchrotron radiation A308 (1991) 419
Bartalucci, S., R. Boni, A. Gallo, M. Serio, R. Scalia, B. Spataro, G. Vignola and L. Palumbo, A perturbation method for HOM tuning in a rf cavity A309 (1991) 355
Barteri, M., see La Monaca, A. A310 (1991) 403
Barthell, B.L., see Gobby, P.L. A303 (1991) 187

Bartl, W., Conductive PVC for drift tubes A305 (1991) 82
Bartoli, B., L. Peruzzo, G. Sartori, F. Bedeschi, E. Bertolucci, M. Mariotti, A. Menzione, L. Ristori, A. Scribano, A. Stefanini, F. Zetti, M. Budinich and F. Liello, Detection of ultraviolet Cherenkov light from high energy cosmic ray atmospheric showers: a field test A302 (1991) 515
Bartoli, B., see Cresti, M. A306 (1991) 563
Bartolini, R., A. Doria, G.P. Gallerano and A. Renieri, Theoretical and experimental aspects of a waveguide FEL A304 (1991) 417
Bartoszek, L., V. Bharadwaj, M.D. Church, A.A. Hahn, J. Peoples Jr, S.H. Pordes, P.A. Rapidis, S.J. Werkema, D. Agahi, D.R. Broemmelsiek, J.E. Fast, M. Gee, K.E. Gollwitzer, M.A. Mandelkern, J.L. Marques, J. Schultz, M.F. Weber, C.M. Ginsburg, M. Masuzawa, R.E. Ray, J.L. Rosen, S. Trockenheim, J.L. Zhao, T.A. Armstrong, G.E. Hufford, R.A. Lewis, A.M. Majewska, J.D. Reid, G.A. Smith, M.A. Hasan, C. Biino and S. Palestini, The E760 lead-glass central calorimeter: design and initial test results .. A301 (1991) 47
Baru, S.E., see Babichev, E.A. A310 (1991) 449
Baryakhtar, V.G., M.V. Kovalchuk, Yu.M. Litvinov, V.B. Molodkin, V.V. Nemoshkalenko, S.I. Olikhovskii, E.N. Kislovskii and A.I. Nizkova, Total integrated intensity of Bragg-diffracted synchrotron radiation for crystals with defects A308 (1991) 291
Baryshev, V.B., see Khvostova, V.P. A308 (1991) 312
Baryshev, V.B., see Khvostova, V.P. A308 (1991) 315
Baryshev, V.B., see Daryin, A.V. A308 (1991) 318
Baryshev, V.B., see Trunova, V.A. A308 (1991) 321
Baryshev, V.B., see Antonov, A.A. A308 (1991) 442
Baryshevsky, V.G., I.Ya. Dubovskaya and A.V. Zege, X-ray free electron laser in a crystal as distributed feedback resonator A304 (1991) 421
Basile, M., see Alvisi, C. A305 (1991) 30
Basini, G., see Golden, R.L. A306 (1991) 366
Basov, Yu.A., T.L. Pravdivtseva, A.A. Snigirev, M. Belakhovsky, P. Dhez and A. Freund, Two-dimensional focusing of hard X-rays by a phase circular Bragg–Fresnel lens in the case of Bragg backscattering A308 (1991) 363
Basov, Yu.A., see Aristov, V.V. A308 (1991) 413
Bassaler, J.M. and C. Etievant, Project of a free electron laser in the far infrared using a Rhodotron accelerator A304 (1991) 177
Bassini, R., C. Boiano, S. Brambilla, I. Iori, M. Malatesta and A. Moroni, Hybrid low-noise charge preamplifiers for heavy-ion detectors A305 (1991) 449
Basti, F., see Babusci, D. A305 (1991) 19
Bateman, J.E., A. Joyce, S.C. Knight and P. Bedford, A new gaseous imaging detector for the assay of lymphocyte cultures A310 (1991) 354
Bateman, J.E., see Suckling, J. A310 (1991) 465
Batignani, G., L. Bosisio, E. Focardi, F. Forti, M.A. Giorgi, L. Moneta, G. Parrini, G. Tonelli and G. Triggiani, Development and performance of double sided silicon strip detectors A310 (1991) 160
Batist, L.Kh., see Alkhazov, G.D. A306 (1991) 400
Battaoitto, P., A. Colavita, F. Fratnik and L. Lanceri, A Fastbus module for trigger applications based on a digital signal processor and on programmable gate arrays A301 (1991) 265
Bauer, G., see UA1 Collaboration A305 (1991) 331
Bauer, Th.S., see Steijger, J. A310 (1991) 513
Bauerdick, L.A.T., see Atwood, W.B. A306 (1991) 446
Baumbaugh, B., see Bross, A.D. A307 (1991) 35
Bausk, N.V., see Mazalov, L.N. A308 (1991) 230
Bavizhev, M.D., see Asseev, A.A. A309 (1991) 1
Bazan, A., see RD3 Collaboration A309 (1991) 438
Bazylev, V.A. and A.V. Tulupov, Free electron lasers with transverse synchronizing magnetic fields A304 (1991) 427
Bazylev, V.A. and V.V. Goloviznin, Hot electron beams for FELs A304 (1991) 432
Bazylev, V.A., Free electron laser in ultraviolet and X-ray regions A304 (1991) 671
Bebek, C., G. Crawford, J. Dobbins, R.S. Galik, J. Kandaswamy, M. Pisharody, M. Selen, M. Worris, K. Kinoshita, P. Mauskopf, Y. Zhu, J. Dominick, R.L. McIlwain, C.R. Ng, E.I. Shibata and W.-M. Yao, CLEOII trigger system A302 (1991) 261
Bechade, J., see Audit, G. A301 (1991) 473
Beck, G.A., see Grässler, H. A310 (1991) 535
Becker, J., see Fréjus Collaboration A302 (1991) 406
Becker, K.H., see Fréjus Collaboration A302 (1991) 406
Becker, U.J., Y.H. Chang, J.F. Donahue, M.E. Sarakinos, G.E. Sasser and B.R. Smith, Calibration setup for drift chamber gases A306 (1991) 194
Beddo, M., see Garnett, R. A309 (1991) 508

Bedeschi, F., see Bartoli, B. A302 (1991) 515
Bedeschi, F., see Cresti, M. A306 (1991) 563
Bedford, P., see Bateman, J.E. A310 (1991) 354
Behr, L., see Fréjus Collaboration A302 (1991) 406
Behrens, U., see ZEUS Calorimeter Group A309 (1991) 101
Bekefi, G., see Jerby, E. A304 (1991) 107
Beker, H., see Shank, J.T. A309 (1991) 377
Bekkers, J.B., see van Amersfoort, P.W. A304 (1991) 163
Belakhovsky, M., see Basov, Yu.A. A308 (1991) 363
Belavenko, V.S., see Artukh, A.G. A306 (1991) 123
Belbeoch, R., see Bourdon, J.C. A304 (1991) 322
Bellagamba, L., see Alvisi, C. A305 (1991) 30
Bellantoni, L., see Atwood, W.B. A306 (1991) 446
Bellantoni, L., J.S. Conway, J.E. Jacobsen, Y.B. Pan and S.L. Wu, Using neural networks with jet shapes to identify b jets in e^+e^- interactions A310 (1991) 618
Bellazzini, R., see Cresti, M. A306 (1991) 563
Belli, P., R. Bernabei, S. d'Angelo, A. Incicchitti and D. Prosperi, Liquid xenon scintillators A310 (1991) 150
Bellini, G., G. Bacchiocchi, P. D'Angelo, W.R. Cavaletti, M. Di Corato, M. Giammarchi, S. Grabar, A. Igiuni, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, S. Sala and M. Vittone, A microstrip vertex detector to identify heavy flavour decays A305 (1991) 395
Bellotti, R., F. Cafagna, M. Calicchio, M. Castellano, G. De Cataldo, C. De Marzo, O. Erriquez, C. Favuzzi, P. Fusco, N. Giglietto, M. Mongelli, E. Nappi, M. Perchiazzi, A. Sacchetti and P. Spinelli, A transition radiation detector prototype to measure the energy of muons in cosmic ray laboratories A305 (1991) 192
Belov, A., see Buchmann, L. A306 (1991) 413
Belskiy, A.N., A.M. Gurvich, I.A. Kamenskikh, V.V. Mikhailin, M.G. Myagkova and M.A. Terekhin, Excitation of stationary and photostimulated luminescence of BaFBr:Eu-phosphors in the range 4 to 25 eV A308 (1991) 190
Belsky, A.N., see Harutunyan, V.V. A308 (1991) 197
Beltramini, M., see La Monaca, A. A310 (1991) 403
Belusevic, R. and G. Nixon, Readout control for high luminosity accelerators A307 (1991) 110
Belyakov, V.A. and Yu.M. Aivazian, Coherent cascade of X-ray transitions excited by synchrotron radiation in crystals A308 (1991) 73
Bemes, M., see Dowell, D.H. A304 (1991) 1
Bemes, M., see Laucks, M.L. A304 (1991) 25
Bemes, M., see Dowell, D.H. A304 (1991) 336
Bemporad, C., see Baldini, A. A305 (1991) 475
Ben-Zvi, I., L.F. Di Mauro, S. Krinsky, M.G. White and L.H. Yu, Proposed UV FEL user facility at BNL . . . A304 (1991) 181
Benadjal, Y., see Fréjus Collaboration A302 (1991) 406
Bencivelli, W., E. Bertolucci, U. Bottigli, A. Del Guerra, D. Mazzei, A. Messineo, W.R. Nelson, P. Randaccio, V. Rosso, P. Russo and A. Stefanini, Use of EGS4 for the evaluation of the performance of a silicon detector for X-ray digital radiography A305 (1991) 574
Bencivelli, W., E. Bertolucci, U. Bottigli, A. Del Guerra, A. Messineo, W.R. Nelson, P. Randaccio, V. Rosso, P. Russo and A. Stefanini, Evaluation of elemental and compound semiconductors for X-ray digital radiography A310 (1991) 210
Bencze, Gy.L., see Baksay, L. A310 (1991) 607
Bendali, M., R. Mastrippolito, Y. Charon, M. Leblanc, B. Martin, H. Tricoire and L. Valentin, Scintillating optical fiber detectors for DNA sequencing A310 (1991) 373
Bendali, M., see Charon, Y. A310 (1991) 379
Bender, S., see Dowell, D.H. A304 (1991) 1
Bender, S., see Laucks, M.L. A304 (1991) 25
Bender, S.C., see Feldman, D.W. A304 (1991) 224
Bender, S.C., see Lumpkin, A.H. A304 (1991) 379
Béné, P., M. Bourquin, J.H. Field, G. Forconi, A. Léger, J. Perrier, N. Produit and J-P. Richeux, First-level charged particle trigger for the L3 detector A306 (1991) 150
Benenson, W., see Clayton, J. A305 (1991) 116
Benrachi, F., see Chambon, B. A307 (1991) 333
Benson, S., Optical cavities for free electron lasers A304 (1991) 773
Benson, S., see Colson, W.B. A304 (1991) 822
Bensussan, A., see Dei-Cas, R. A304 (1991) 212
Bentley, R.D., see Trow, M.W. A310 (1991) 344
Benton, D., see Holmes, R. A303 (1991) 226

Bentvelsen, S., see ZEUS Calorimeter Group A309 (1991) 101
Bentz, M., see Dowell, D.H. A304 (1991) 1
Bentz, M., see Laucks, M.L. A304 (1991) 25
Berdoz, A.R., J. Birchall, J.R. Campbell, C.A. Davis, N.E. Davison, P.W. Green, M. Knoll, E. Korkmaz, R.E. Mischke, D.R. Mosscrop, S.A. Page, W.D. Ramsay, G. Roy, A.M. Sekulovich, J. Soukup, G.M. Stinson, J. Stewart and W.T.H. van Oers, A beam intensity profile monitor based on secondary electron emission . . . A307 (1991) 26
Berger, Ch., see Fréjus Collaboration A302 (1991) 406
Bergeret, H., M. Boussoukaya, R. Chehab, B. Leblond and J. Le Duff, Short pulse photoemission from a dispenser cathode A301 (1991) 389
Bergeret, H., see Septier, A. A304 (1991) 392
Bergher, M., see Bourdon, J.C. A304 (1991) 322
Berglund, S., see Kobayashi, M. A302 (1991) 47
Bergstrom, J.C., see Clayton, J. A305 (1991) 116
Bergström, M. and P. Ekström, FourtyTwo – a two-dimensional analysis program for γ–γ coincidence matrices A301 (1991) 132
Berkovits, D., E. Boaretto, G. Hollos, W. Kutschera, R. Naaman, M. Paul and Z. Vager, Observation of high intensity negative ion pulses by laser impact (*Letter to the Editor*) A302 (1991) 379
Berman, L.E. and M. Hart, Adaptive crystal optics for high power synchrotron sources A302 (1991) 558
Bernabei, R., see Belli, P. A310 (1991) 150
Bernard, M., see Bourdon, J.C. A304 (1991) 322
Bernasconi, G., E.D. Greaves and L. Sajo-Bohus, New approach in assessing the lower detection limit in low level radiation counting A307 (1991) 491
Bernieri, E., see Balerna, A. A308 (1991) 234
Bernieri, E., see Balerna, A. A308 (1991) 240
Bernstein, R.H., see King, B.J. A302 (1991) 254
Berryman, K.W., see Swent, R.L. A304 (1991) 272
Berset, J.C., see RD3 Collaboration A309 (1991) 438
Bertolucci, E., see Bartoli, B. A302 (1991) 515
Bertolucci, E., see Bencivelli, W. A305 (1991) 574
Bertolucci, E., see Cresti, M. A306 (1991) 563
Bertolucci, E., see Bencivelli, W. A310 (1991) 210
Bertsche, K.J., Ion motion in a small low energy cyclotron A301 (1991) 171
Bertsche, K.J., C.A. Karadi and R.A. Muller, Radiocarbon detection with a small low energy cyclotron A301 (1991) 358
Bertucci, B., see Angelov, T. A306 (1991) 536
Berz, M., see Kim, K.-J. A304 (1991) 233
Berz, M., W.M. Fawley and K. Hahn, High order calculation of the multiple content of three dimensional electrostatic geometries A307 (1991) 1
Besch, H.J., see Badura, A. A310 (1991) 441
Besch, H.J., E.J. Bode, R.H. Mank, H.W. Schenk, U. Tafelmeier, A.H. Walenta and H.Z. Xu, A high precision, high speed X-ray detector for the noninvasive coronary angiography with synchrotron radiation . A310 (1991) 446
Besson, B., see Dei-Cas, R. A304 (1991) 212
Bessonov, E.G., Conventionally strange electromagnetic waves A308 (1991) 135
Bessonov, E.G., see Alekseev, V.I. A308 (1991) 140
Bessonov, E.G., On the shape of spectral lines A308 (1991) 142
Best, R.W.B., see van Amersfoort, P.W. A304 (1991) 163
Best, R.W.B. and B. Faatz, Gauss–Laguerre modes in FELIX A304 (1991) 532
Best, R.W.B., see Faatz, B. A304 (1991) 551
Betenekova, T.A., see Pustovarov, V.A. A308 (1991) 203
Bettini, A., A. Braggiotti, F. Casagrande, P. Casoli, P. Cennini, S. Centro, M. Cheng, A. Ciocio, S. Cittolin, D. Cline, B. Dainese, F. Gasparini, L. Mazzone, R. Munoz, G. Muratori, A. Pepato, G. Piano Mortari, P. Picchi, F. Pietropaolo, P. Rossi, C. Rubbia, S. Suzuki, H. Wang and M. Zhou, A study of the factors affecting the electron lifetime in ultra-pure liquid argon A305 (1991) 177
Beulertz, W., see Anton, G. A310 (1991) 631
Beusch, W., see WA82 Collaboration A309 (1991) 401
Beusch, W., see WA84 Collaboration A310 (1991) 485
Beuve, M.A., see Dei-Cas, R. A304 (1991) 215
Bewick, A., see Spooner, N.J.C. A310 (1991) 227
Beynon, T.D., see Field, G.M. A310 (1991) 435
Bezaguet, A., see Bacci, C. A301 (1991) 445
Bezaguet, A., see UA1 Collaboration A305 (1991) 331
Bharadwaj, V., see Bartoszek, L. A301 (1991) 47

Bhattacharjee, A., S.Y. Cai, J.W. Dodd and T.C. Marshall, Optical spikes in a free electron laser: theory and experiment ... A304 (1991) 99
Bhattacharjee, A., see Marshall, T.C. ... A304 (1991) 683
Biagi, S.F., Accurate three-dimensional simulation of straw chambers using slow, medium and fast gas mixtures ... A310 (1991) 133
Bianchi, F., see Lund–Milano–Torino–Trieste Collaboration ... A305 (1991) 320
Bianchi, N., see Mazzaschi, L. ... A305 (1991) 391
Bianco, S., F.L. Fabbri, L. Passamonti, V. Russo, A. Spallone and A. Zallo, A study of the short-term rate effect in Philips XP-2008 photomultiplier tubes ... A301 (1991) 279
Bianco, S., P. Cantoni, A. Cotta-Ramusino, L. Daniello, M. Enorini, F.L. Fabbri, P.L. Frabetti, M. Giardoni, V. Giordano, S. Meneghini, G. Molinari, L. Passamonti, L. Perasso, R. Pilastrini, S.P. Ratti, V. Russo, A. Sala-Grabar, G. Sola, A. Spallone, P. Trespi, P. Vitulo and A. Zallo, The photomultiplier gain monitoring system for the E687 electromagnetic calorimeter at Fermilab ... A305 (1991) 48
Bianconi, A., see Soldatov, A.V. ... A308 (1991) 246
Bianconi, A., A.V. Soldatov and T.I. Ivanchenko, Confirmation of hydrogen-induced unoccupied states in PdH: multiple-scattering analysis of palladium L_1 and L_3 XANES ... A308 (1991) 248
Bidoli, V., see Golden, R.L. ... A306 (1991) 366
Bidwell, S.W., D.J. Radack, T.M. Antonsen Jr., J.H. Booske, Y. Carmel, W.W. Destler, V.L. Granatstein, B. Levush, P.E. Latham, I.D. Mayergoyz and Z.X. Zhang, A high-average-power tapered FEL amplifier at submillimeter frequencies using sheet electron beams and short-period wigglers ... A304 (1991) 187
Bigi, A., see Shah, J.S. ... A308 (1991) 285
Biino, C., see Bartoszek, L. ... A301 (1991) 47
Bijker, W., see Aite, K. ... A305 (1991) 533
Billardon, M., Chaotic behaviour of the storage ring free electron laser ... A304 (1991) 37
Billardon, M., see Couprie, M.E. ... A304 (1991) 53
Billardon, M., see Couprie, M.E. ... A304 (1991) 58
Billardon, M., see Prazeres, R. ... A304 (1991) 72
Bilokon, H., A. Castellina, B. D'Ettorre Piazzoli, G. Mannocchi, P. Picchi and S. Vernetto, Underground survival probabilities of high energy muons in the depth range 3100–10 100 hg/cm^2 of standard rock ... A303 (1991) 381
Bilwes, B., see Rudolf, G. ... A307 (1991) 325
Bilwes, R., see Rudolf, G. ... A307 (1991) 325
Binet, A., see Dei-Cas, R. ... A304 (1991) 215
Binet, A., R. Dei-Cas, D. Iracane, J.G. Marmouget and Y. Pranal, A tunable wiggler prototype for the ELSA experiment ... A304 (1991) 707
Bini, C., G. De Zorzi, G. Diambrini Palazzi, G. Di Cosimo, A. Di Domenico, P. Gauzzi and D. Zanello, Fast measurement of luminosity at LEP by detecting the single bremsstrahlung photons ... A306 (1991) 467
Bini, M., see Pasquali, G. ... A301 (1991) 101
Biral, A.R.P., see Cresti, M. ... A306 (1991) 563
Birchall, J., see Abegg, R. ... A306 (1991) 432
Birchall, J., see Berdoz, A.R. ... A307 (1991) 26
Birckner, E., see Bähr, J. ... A306 (1991) 169
Bird, A.J., A.J. Dean, K.J. Grant, G. Malaguti, S.D. Mullerworth and B.M. Swinyard, Design characteristics of a low-energy gamma-ray imager for future space missions ... A310 (1991) 323
Bird, A.J., He Zhong and D. Ramsden, A position-sensitive phoswich ... A310 (1991) 332
Biri, S., S.L. Bogomolov and I. Koos, A method for radial extraction of ions from a PIG source using an asymmetrical Wien filter ... A306 (1991) 56
Bisenberger, M., see Zanotti, E. ... A310 (1991) 706
Bishop, B.L., see Job, P.K. ... A309 (1991) 60
Bisoffi, G., see Cavenago, M. ... A301 (1991) 9
Bitter, T., F. Eisert, P. El-Muzeini, M. Kessler, U. Kinkel, E. Klemt, W. Lippert, W. Meienburg, R. Werner, K. Gobrecht and D. Dubbers, A large volume magnetic shielding system for the ILL neutron–antineutron oscillation experiment ... A309 (1991) 521
Bjarne, J., see Lund–Milano–Torino–Trieste Collaboration ... A305 (1991) 320
Black, K., see Armijo, V. ... A303 (1991) 298
Blair, R.E., see King, B.J. ... A302 (1991) 254
Blankenship, J., see Shapira, D. ... A301 (1991) 76
Blau, J. and W.B. Colson, The effects of electron beam quality on the free electron laser mechanism ... A304 (1991) 436
Blésés, J.P., see Dei-Cas, R. ... A304 (1991) 215
Blésés, J.P., see Balleyguier, P. ... A304 (1991) 308
Bloch, A., see Audit, G. ... A301 (1991) 473
Bloess, D., see Bacci, C. ... A301 (1991) 445

Bloess, D., see UA1 Collaboration A305 (1991) 331
Blomeke, P., see Adriani, O. A302 (1991) 53
Bloquet, A., see Dei-Cas, R. A304 (1991) 215
Bloquet, A., see Balleyguier, P. A304 (1991) 308
Blucher, E., see Atwood, W.B. A306 (1991) 446
Bluem, H., see Pershing, D.E. A304 (1991) 127
Blum, D., see Fréjus Collaboration A302 (1991) 406
Blum, D., see Dassie, D. A309 (1991) 465
Blum, E.B., U. Happek and A.J. Sievers, Observation of coherent synchrotron radiation at the Cornell linac . A307 (1991) 568
Blum, W., see Atwood, W.B. A306 (1991) 446
Blumenfeld, H., E. Gaillard and P. Rebourgeard, Measurement of the reflection coefficient at the core–cladding interface in plastic scintillating fibers A309 (1991) 169
Blusk, S.R., see Bromberg, C. A307 (1991) 292
Boaretto, E., see Berkovits, D. A302 (1991) 379
Bock, R.K., see Shank, J.T. A309 (1991) 377
Bode, E.J., see Besch, H.J. A310 (1991) 446
Bodek, A., see King, B.J. A302 (1991) 254
Bodenes, J.M., see UA1 Collaboration A305 (1991) 331
Boehmer, H., see Lazar, N.H. A304 (1991) 243
Bogachenkov, V.A., V.A. Papadichev, I.V. Sinilshikova and O.A. Smith, Generation of intense radiation in the 0.7 to 6 mm interval by means of REB A304 (1991) 104
Boggasch, E., see Wang, J.G. A301 (1991) 19
Bogomolov, S.L., see Biri, S. A306 (1991) 56
Böhm, G., J.I. Kim and J. Kemmer, Qualification of the fabrication process for Si detectors by neutron activation analysis A305 (1991) 587
Boiano, C., see Bassini, R. A305 (1991) 449
Bois, R., see Dei-Cas, R. A304 (1991) 215
Bois, R., P. Clouet, M. Guilloud, J.P. Laget, D. Masseron, P. Michaud, D. Munch, Y. De Penquer and J. Trarieux, The ELSA control system A304 (1991) 315
Boissevain, J.G., see Simon-Gillo, J. A309 (1991) 427
Bol, A., see Lipnik, P. A305 (1991) 158
Bolognese, T., see Aleksan, R. A305 (1991) 512
Bolton, R.D., see Armijo, V. A303 (1991) 298
Bonaviri, E., see Golden, R.L. A306 (1991) 366
Bonazzola, G.C., T. Bressani, D. Calvo, P. De Remigis, A. Feliciello, P. Gianotti, S. Gallian, S. Marcello, A. Adamo, I. Massa and S. Serci, The first level trigger of the OBELIX spectrometer A306 (1991) 305
Bond, C.C., see Faruqi, A.R. A310 (1991) 359
Bonetti, C., see Balleyguier, P. A304 (1991) 308
Bonetti, Cl., see Dei-Cas, R. A304 (1991) 215
Bongiorno, F., see Golden, R.L. A306 (1991) 366
Boni, R., see Bartalucci, S. A309 (1991) 355
Boniface, J., see Czapek, G. A306 (1991) 572
Bonifacio, R., see McNeil, B.W.J. A304 (1991) 411
Bonifacio, R., see Casagrande, F. A304 (1991) 439
Bonin, B., see Cameron, J.M. A305 (1991) 257
Bonino, R., see UA1 Collaboration A305 (1991) 331
Bonivento, W., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Bonnafond, C., see Bottollier-Curtet, H. A304 (1991) 197
Bonnafond, C., see Launspach, J. A304 (1991) 368
Bonnier, J., see Dei-Cas, R. A304 (1991) 212
Bonushkin, Yu.Ye., see Alekseev, G.D. A305 (1991) 344
Booske, J.H., see Bidwell, S.W. A304 (1991) 187
Bootsma, T.M.V., see Schotanus, P. A310 (1991) 523
Borcherding, F., see King, B.J. A302 (1991) 254
Borchi, E., R. Macii, C. Leroy, C. Manoukian-Bertrand, C. Furetta, R. Paludetto, S. Pensotti, P.G. Rancoita, M. Rattaggi, A. Seidman and L. Vismara, Leakage current, annealing, and deep defect production studies in neutron irradiated n-type Si-detectors A301 (1991) 215
Borchi, E., M. Bruzzi and M.S. Mazzoni, Thermally stimulated and leakage current analysis of neutron irradiated silicon detectors A310 (1991) 273
Borden, M.J., G.E. Adamson, R.N. Johnson and W.F. Nicaise, Long-life carbon-fiber-supported carbon stripper foils A303 (1991) 63

Bordovitsyn, V.A., V.Ya. Epp and V.Yu. Muravyatkin, Radiation and dynamics of relativistic charged particles in a magnetic field modulated by a superconductor . . . A308 (1991) 128
Borg, A., see Fréjus Collaboration . . . A302 (1991) 406
Borghi, E., see La Monaca, A. . . . A310 (1991) 403
Bornstein, D., see Badura, A. . . . A310 (1991) 441
Bortolotto, C., A. De Angelis and L. Lanceri, Tagging the decays of the Z^0 boson into b quark pairs with a neural network classifier . . . A306 (1991) 459
Boscherini, D., see Alvisi, C. . . . A305 (1991) 30
Boscolo, I. and L. Elias, FELTRON: a high-power microwave power source for high-gradient linear colliders . A309 (1991) 585
Bosisio, L., Design and processing of double-sided microstrip detectors . . . A305 (1991) 633
Bosisio, L., see Batignani, G. . . . A310 (1991) 160
Bostock, I.J., T.J. Kennett and J.W. Harvey, Instrumentation for automated acquisition and analysis of TLD glow curves . . . A302 (1991) 355
Botlo, M., J. Dorenbosch, M. Jimack, F. Szoncsó, A. Taurok and G. Walzel, BATS, the readout control of UA1 . . . A302 (1991) 331
Botlo, M., see Shank, J.T. . . . A309 (1991) 377
Botman, J.I.M., J.L. Delhez, G.A. Webers, H.L. Hagedoorn, W.J.G.M. Kleeven, C.J. Timmermans, G.J. Ernst, J.W.J. Verschuur, W.J. Witteman and E.H. Haselhoff, A microtron accelerator for a free electron laser . . A304 (1991) 192
Botterill, J.S.M., see Field, G.M. . . . A310 (1991) 435
Bottigli, U., see Bencivelli, W. . . . A305 (1991) 574
Bottigli, U., see Bencivelli, W. . . . A310 (1991) 210
Bottollier-Curtet, H., J. Gardelle, J. Bardy, C. Bonnafond, A. Devin, G. Germain, J. Labrouche, J. Launspach, P. Le Taillandier and J. de Mascureau, First FEL experiment in the millimeter range at CESTA. The ONDINE experiment . . . A304 (1991) 197
Bottollier-Curtet, H., see Launspach, J. . . . A304 (1991) 368
Bouclier, R., J. Gaudaen and F. Sauli, The coated cathode conductive layer chamber . . . A310 (1991) 74
Boudard, A., see Cameron, J.M. . . . A305 (1991) 257
Boudreau, J., see Atwood, W.B. . . . A306 (1991) 446
Boudry, J., see Antonuk, L.E. . . . A310 (1991) 460
Boulin, C., see Barbosa, A.F. . . . A302 (1991) 489
Bourat, C., Beam dynamics for FEL injection of the linac preinjector of ELETTRA . . . A304 (1991) 317
Bourdarios, C., see Fréjus Collaboration . . . A302 (1991) 406
Bourdier, A., see Michel, L. . . . A304 (1991) 465
Bourdon, J.C., R. Belbeoch, M. Bernard, P. Brunet, B. Leblond, M. Omeich, E. Plouviez, J. Rodier, R. Chaput, M. Bergher and J.M. Ortega, Commissioning the CLIO injection system . . . A304 (1991) 322
Bourgeois, F., see WA82 Collaboration . . . A309 (1991) 401
Bourgeois, P., P.J. Carlos, M.E. Couprie, J.L. Fallou, P. Garganne, A. Leprêtre, J. Martin, J.M. Ortéga and C. Ré, Realization of a permanent magnet undulator for the CLIO infrared free electron laser at Orsay . . . A301 (1991) 150
Bourgeois, P., see Couprie, M.E. . . . A304 (1991) 710
Bourquin, M., see Béné, P. . . . A306 (1991) 150
Boussoukaya, M., see Bergeret, H. . . . A301 (1991) 389
Boutigny, D., see Adeva, B. . . . A309 (1991) 318
Boux, R.B., see Dei-Cas, R. . . . A304 (1991) 212
Bower, C.R., see Nutter, S. . . . A310 (1991) 665
Box, P.F., see Schotanus, P. . . . A310 (1991) 523
Boyce, J.B., see Bridges, F. . . . A307 (1991) 316
Boyer, K.G., see Morgan, G.L. . . . A308 (1991) 544
Boyle, O., see Atwood, W.B. . . . A306 (1991) 446
Bozoki, E.S. and H. Halama, Ion related problems for the XLS ring . . . A307 (1991) 156
Bozoki, E.S., Determination of beam position from induced electric signals . . . A307 (1991) 195
Bradley, J., see Hylen, J. . . . A310 (1991) 497
Brady, F.P., see Romero, J.L. . . . A301 (1991) 241
Braga, J., see Jayanthi, U.B. . . . A310 (1991) 685
Braggiotti, A., see Bettini, A. . . . A305 (1991) 177
Braghieri, A., see Audit, G. . . . A301 (1991) 473
Braicovich, L., see Elleaume, P. . . . A308 (1991) 382
Braicovich, L., see Malgrange, C. . . . A308 (1991) 390
Brakchman, E.V., see Artemiev, V.A. . . . A303 (1991) 309
Brambilla, S., see Bassini, R. . . . A305 (1991) 449
Bray, N.C., see Galindo-Uribarri, A. . . . A301 (1991) 457
Breakstone, A., Performance of the capacitive displacement measuring system of the Mark II detector at the SLC . . . A305 (1991) 39

Breeveld, A.A., see Lapington, J.S. A310 (1991) 299
Brendle, M. and K. Schmidt, A multiplex-switch controller A302 (1991) 339
Brendle, M., M. Ermer, P. Grabmayr, J. Kotz and A. Mondry, A digital preprocessor for multiparameter experiments A302 (1991) 342
Brenner, R., see Hietanen, I. A301 (1991) 116
Brenner, R., see Hietanen, I. A305 (1991) 173
Brenner, R., see Hubbeling, L. A310 (1991) 197
Brenner, R., see Hietanen, I. A310 (1991) 671
Brenner, R., see Hietanen, I. A310 (1991) 677
Breskin, A., see Vartsky, D. A301 (1991) 96
Breskin, A., see Malamud, G. A307 (1991) 83
Breskin, A., see Dangendorf, V. A308 (1991) 519
Breskin, A., R. Chechik, V. Dangendorf, S. Majewski, G. Malamud, A. Pansky and D. Vartsky, New approaches to spectroscopy and imaging of ultrasoft-to-hard X-rays A310 (1991) 57
Bressani, T., see Bonazzola, G.C. A306 (1991) 305
Bressi, G., see Antoniazzi, L. A307 (1991) 312
Bressi, G., M. Cambiaghi, G. Carugno, E. Conti and E. D'Uscio, Electron multiplication in liquid argon on a tip array A310 (1991) 613
Breuer, H., see Backenstoss, G. A310 (1991) 518
Breuer, M., see Arends, J. A306 (1991) 89
Bricman, C., see Buytaert, J. A310 (1991) 596
Bridges, F., X. Wang and J.B. Boyce, Minimizing "glitches" in XAFS data: A model for glitch formation A307 (1991) 316
Bridgwater, J., see Field, G.M. A310 (1991) 435
Brindhaban, S.A., see Barker, P.H. A306 (1991) 272
Brinkmann, K.-Th., see Kiesewetter, J. A309 (1991) 196
Brisset, J., see Dei-Cas, R. A304 (1991) 215
Brisset, J., see Balleyguier, P. A304 (1991) 308
Britton Jr., C.L., see Kennedy, E.J. A307 (1991) 452
Britvich, G.I., A.I. Peresypkin, V.G. Vasil'chenko, E.A. Krivandina, B.P. Sobolev, E.G. Devitsin, Yu.I. Hovsepyan, V.A. Kozlov and T.V. Uvarova, A study on the characteristics of some materials for electromagnetic calorimeters A308 (1991) 509
Brkic, M., see ZEUS Calorimeter Group A309 (1991) 101
Broemmelsiek, D.R., see Bartoszek, L. A301 (1991) 47
Bromberg, C., D. Brown, J. Huston, A. Maul, R. Miller, A. Nguyen, L. Sorrel, C. Yosef, S. Mani, B.C. Choudhary, V. Kapoor, R. Shivpuri, W. Baker, W. DeSoi, C. Johnstone, I. Kourbanis, P. Lukens, D. Skow, G.-H. Wu, G. Alverson, P. Chang, W. Dlugosz, W. Faissler, D. Garelick, M. Glaubman, C. Lirakis, E. Pothier, T. Yasuda, P. Gutierrez, K. Hartman, B.Y. Oh, W. Toothacker, J. Whitmore, S.R. Blusk, W.H. Chung, E. Engels Jr, P.F. Shepard, D.D.S. Weerasundara, L. DeBarbaro, J. Dunlea, G. Fanourakis, T. Ferbel, G. Ginther, F. Lobkowicz, J. Mansour, E. Prebys, R. Roser, P. Slattery, N. Varelas and M. Zielinski, Design and operation of large straw-tube drift chamber planes A307 (1991) 292
Bross, A.D., A. Pla-Dalmau, B. Baumbaugh, J. Godfrey, J. Jaques, J. Marchant, J. Piekarz and R. Ruchti, Development and characterization of new scintillation materials for fiber tracking and calorimetry A307 (1991) 35
Browman, M.J., see Carlsten, B.E. A304 (1991) 587
Brown, D., see Bromberg, C. A307 (1991) 292
Brown, M.J., see Barker, P.H. A306 (1991) 272
Bru, A., see Olmos, P. A302 (1991) 91
Brückner, J., see Drake, D.M. A309 (1991) 575
Brunet, P., see Bourdon, J.C. A304 (1991) 322
Brunetti, M.T., A. Codino, C. Federico, C. Grimani, M. Menichelli, G. Minelli, E. Rongoni, I. Salvatori, P. Picozza and P. Spillantini, Leakage current and capacity variation with temperature in silicon detectors of a space calorimeter A302 (1991) 362
Bruni, G., see Alvisi, C. A305 (1991) 30
Bruni, P., see Alvisi, C. A305 (1991) 30
Bruno, M., M. D'Agostino, P.M. Milazzo, S. Ostuni, E. Fuschini and A. Moroni, Efficiency of a large solid angle detecting system for heavy ions A305 (1991) 410
Bruyant, F., see Adeva, B. A309 (1991) 318
Bruyndonckx, P., J. Debruyne, L. Etienne, M. Gruwé, B. Guerard, S. Tavernier and Zhang Shuping, BaF_2 scintillators with wire chamber readout for positron emission tomography A310 (1991) 107
Bruyndonckx, P., see Guerard, B. A310 (1991) 116
Bruzzi, M., see Borchi, E. A310 (1991) 273
Bu, S.F., see Yang, T.L. A304 (1991) 280

Bublik, B.K., see Lyakh, V.V. A308 (1991) 327
Bubp, D.G., see Caplan, M. A304 (1991) 200
Buccheri, A., see Golden, R.L. A306 (1991) 366
Buchanan, C., see UA1 Collaboration A305 (1991) 331
Buchmann, L., A proton polarimeter for beam energies below 300 keV A301 (1991) 383
Buchmann, L., K. Jayamanna, C.D.P. Levy, M. McDonald, R. Ruegg, P.W. Schmor, A. Belov, V.G. Polushkin and A.N. Zelenskii, A dc optically pumped, polarized H^- source A306 (1991) 413
Budd, H.S., see King, B.J. A302 (1991) 254
Budinich, M., see Bartoli, B. A302 (1991) 515
Budinich, M., see Cresti, M. A306 (1991) 563
Budtz-Jørgensen, C., A. Bahnsen, C. Olesen, M.M. Madsen, P. Jonasson, H.W. Schnopper and A. Oed, Microstrip proportional counters for X-ray astronomy A310 (1991) 82
Budtz-Jørgensen, C., see Oed, A. A310 (1991) 95
Buitrago, R.H., see Xi, J. A301 (1991) 219
Bujak, A., see Baksay, L. A310 (1991) 607
Bullough, M.A., see Allport, P.P. A310 (1991) 155
Buon, J., F. Couchot, J. Jeanjean, F. Le Diberder, V. Lepeltier, H. Nguyen Ngoc, J. Perez-y-Jorba, P. Puzo and P. Chen, A beam size monitor for the Final Focus Test Beam A306 (1991) 93
Buontempo, S., see Acosta, D. A302 (1991) 36
Buontempo, S., see Acosta, D. A305 (1991) 55
Buontempo, S., see Acosta, D. A308 (1991) 481
Buontempo, S., see Acosta, D. A309 (1991) 143
Burachas, S.F., see Abramov, A.A. A302 (1991) 529
Burattini, E., see Balerna, A. A308 (1991) 234
Burattini, E., see Balerna, A. A308 (1991) 240
Burks, B., see Shapira, D. A301 (1991) 76
Burleson, G., see Garnett, R. A309 (1991) 508
Burns, R., see Dowell, D.H. A304 (1991) 1
Burns, R., see Laucks, M.L. A304 (1991) 25
Burow, B., see ZEUS Calorimeter Group A309 (1991) 101
Burt, D.J., CCD performance limitations: theory and practice A305 (1991) 564
Busch, G.E., see Lumpkin, A.H. A304 (1991) 379
Busetto, G., see UA1 Collaboration A305 (1991) 331
Buskens, J., see Van der Graaf, H. A307 (1991) 220
Bussière, A., see Nastoll, H. A306 (1991) 65
Busto, J., see Dassie, D. A309 (1991) 465
Buttar, C.M., F.H. Combley, I. Dawson, M. Dogru, M. Harrison, G. Hill, Y. Hou and P. Houston, A preliminary study of the response of a gallium arsenide detector to alpha particles A310 (1991) 208
Buttkewitz, A., see Engström, P. A302 (1991) 547
Buys, A., see WA82 Collaboration A309 (1991) 401
Buytaert, J., L. De Boeck, F. Verbeure, C. Bricman, F. Cao, C. De Clercq, L. Etienne, B. Goorens, J. Lemonne, F. Stichelbaut, S. Tavernier, G. Van Beek, C. Vander Velde, W. Van Doninck, L. Van Lancker, J. Wickens, E. Daubie, F. Defontaines, F. Grard, J. Kestemann, O. Pingot and C. Poiret, The forward muon detector of the DELPHI experiment at LEP A310 (1991) 596
Buzulutskov, A.F., V.Yu. Glebov, Yu.P. Korneev, L.K. Turnchanovich and V.G. Vasil'chenko, RICH-detector using a wire chamber, operating in a self-quenching streamer mode A306 (1991) 177
Buzzi, J.M., see Michel, L. A304 (1991) 465
Bykov, A.A., see Alkhazov, G.D. A306 (1991) 400
Bylsma, B.G., L.S. Durkin, J. Fitch, C. Li, T.Y. Ling, K. Mclean, S.K. Park, T.A. Romanowski and R. Seidlein, Optical readout components for the ZEUS barrel calorimeter A305 (1991) 354
Byrd, R.C., see Feldman, W.C. A306 (1991) 350
Byrne, J., see Tagziria, H. A303 (1991) 123
Byrne, J., see Pauwels, J. A303 (1991) 133

Caciuffo, R., see Allegretti, F. A302 (1991) 455
Cafagna, F., see Bellotti, R. A305 (1991) 192
Cai, S.Y., see Bhattacharjee, A. A304 (1991) 99
Cai, S.Y., see Marshall, T.C. A304 (1991) 683
Cai, X., see Adriani, O. A302 (1991) 53
Cai Shan-Yu, A. Ghiorso and D.C. Hoffman, The preparation of accelerator targets by evaporation of acetate–organic solutions in the presence of NH_3 gas A303 (1991) 141

Cairns, E.B., see Cameron, J.M. A305 (1991) 257
Calabrese, R., J.M. Gong, V. Guidi, F. Masoli and L. Tecchio, Experimental study on the production of high density electron bunches from a GaAs photocathode A309 (1991) 21
Calabretta, L., see Anzalone, A. A308 (1991) 533
Caldwell, A., see ZEUS Calorimeter Group A309 (1991) 101
Calicchio, M., see Bellotti, R. A305 (1991) 192
Calligarich, E., R. Cardarelli, A. Cesana, S. Colangelo, G.L. Raselli, G. Sandrelli, M. Terrani and A. Testi, The resistive plate counter as a neutron detector (*Letter to the Editor*) A307 (1991) 142
Calõba, L., see Acosta, D. A302 (1991) 36
Calôba, L., see Acosta, D. A305 (1991) 55
Calôba, L., see Acosta, D. A308 (1991) 481
Calôba, L., see Acosta, D. A309 (1991) 143
Caloi, R., see Dattoli, G. A304 (1991) 541
Calvo, D., see Bonazzola, G.C. A306 (1991) 305
Cambiaghi, M., see Bressi, G. A310 (1991) 613
Camerini, U., see Alvisi, C. A305 (1991) 30
Cameron, J.M., B. Ni, L.E. Antonuk, E.B. Cairns, H.W. Fielding, L. Holm, R. Igarashi, C. Lapointe, W.J. McDonald, J. Pasos, N.L. Rodning, G. Roy, J. Soukup, W. Ziegler, J. Arvieux, J. Tinslay, J. Yonnet, B. Bonin, A. Boudard, M. Garçon, D. Bachelier and I. The, The design and calibration of the AHEAD deuteron polarimeter for $120 < E_d < 250$ MeV A305 (1991) 257
Camin, D.V., see RD3 Collaboration A309 (1991) 438
Campagne, J.E., see Dassie, D. A309 (1991) 465
Campbell, A.B., see Harihar, P. A302 (1991) 469
Campbell, J.R., see Berdoz, A.R. A307 (1991) 26
Caner, A., see Bacci, C. A301 (1991) 445
Caner, A., see UA1 Collaboration A305 (1991) 331
Cantoni, P., see Bianco, S. A305 (1991) 48
Cao, D.Z., see Yang, T.L. A304 (1991) 280
Cao, F., see Buytaert, J. A310 (1991) 596
Capell, M., see Adriani, O. A302 (1991) 53
Caplan, H.S., see Clayton, J. A305 (1991) 116
Caplan, M., B. Kulke, D.G. Bubp, D. McDermott and N. Luhmann, A 250 GHz CARM oscillator experiment driven by an induction linac A304 (1991) 200
Capone, A., see Bähr, J. A306 (1991) 169
Cappuccio, G., see La Monaca, A. A310 (1991) 403
Cara Romeo, G., see Alvisi, C. A305 (1991) 30
Cardarelli, R., see Calligarich, E. A307 (1991) 142
Cardenal, P., see Adeva, B. A309 (1991) 318
Cardini, A., see WA84 Collaboration A310 (1991) 485
Caria, M., see Acosta, D. A302 (1991) 36
Caria, M., see Acosta, D. A305 (1991) 55
Caria, M., see Acosta, D. A308 (1991) 481
Caria, M., see Acosta, D. A309 (1991) 143
Carius, S., see Armijo, V. A303 (1991) 298
Carling, H., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Carlos, P.J., see Bourgeois, P. A301 (1991) 150
Carlos, P.J., see Couprie, M.E. A304 (1991) 710
Carlson, P., see Kobayashi, M. A302 (1991) 47
Carlsten, B.E., see Feldman, D.W. A304 (1991) 224
Carlsten, B.E., see Lumpkin, A.H. A304 (1991) 374
Carlsten, B.E., see Lumpkin, A.H. A304 (1991) 379
Carlsten, B.E., L.M. Young, M.J. Browman, H. Takeda, D.M. Feldman, P.G. O'Shea and A.H. Lumpkin, INEX simulations of experimentally measured accelerator performance at the Los Alamos HIBAF facility A304 (1991) 587
Carmel, Y., see Bidwell, S.W. A304 (1991) 187
Caroli, E., see Labanti, C. A310 (1991) 327
Caroli, E., see Malaguti, G. A310 (1991) 337
Carpenter, J.M., D.F.R. Mildner and J.W. Richardson Jr, Correcting time-of-flight neutron diffraction data for chopped delayed neutron backgrounds: the action of a drum chopper in a pulsed neutron beam A301 (1991) 305
Carpenter, J.M. and D.F.R. Mildner, Transmission probability of a drum chopper in a thermal neutron beam A301 (1991) 315
Carpenter, J.M., see Robinson, R.A. A307 (1991) 359
Carr, R., Adjustable phase insertion devices as X-ray sources A306 (1991) 391

Carter, A.A., see Allport, P.P. A310 (1991) 155
Carter, J.G., see Christophorou, L.G. A309 (1991) 160
Carter, J.R., see Allport, P.P. A310 (1991) 155
Carter, M.K., B.E. Patchett, P.D. Read, N. Waltham and I.G. van Breda, New techniques in photon counting detectors A310 (1991) 305
Cartiglia, N., see Sonnenblick, R. A310 (1991) 189
Carton, P.H., see Audit, G. A301 (1991) 473
Carugno, G., see Bressi, G. A310 (1991) 613
Carvalho, C., see Malgrange, C. A308 (1991) 390
Casagrande, F., R. Bonifacio and A. Airoldi, The self-consistent pendulum picture of the free electron laser revised and the instability threshold for exponential gain A304 (1991) 439
Casagrande, F. and G. Cerchioni, Steady-state and superradiant many-mode dynamics in a high-gain amplifier with a waveguide A304 (1991) 536
Casagrande, F., see Bettini, A. A305 (1991) 177
Casano, L., see Babusci, D. A305 (1991) 19
Cases, G., see ZEUS Calorimeter Group A309 (1991) 101
Casoli, L., see UA1 Collaboration A305 (1991) 331
Casoli, P., see Bettini, A. A305 (1991) 177
Cassatt, W.A., see Debenham, P.H. A304 (1991) 208
Castaneda, C.M., see Romero, J.L. A301 (1991) 241
Castano, B., see Andersen, E. A301 (1991) 69
Castellano, M., A. Ghigo, P. Patteri, C. Sanelli, M. Serio, F. Tazzioli, N. Cavallo, F. Cevenini, F. Ciocci, G. Dattoli, A. Dipace, G.P. Gallerano, A. Renieri, E. Sabia and A. Torre, Status report of the IR FEL project on the superconducting linac LISA at LNF-Frascati A304 (1991) 204
Castellano, M., see Bellotti, R. A305 (1991) 192
Castelli, C., A. Wells, K. McCarthy and A. Holland, Soft X-ray response of charge coupled devices A310 (1991) 240
Castellina, A., see Bilokon, H. A303 (1991) 381
Castellini, G., see Alvisi, C. A305 (1991) 30
Castilla-Valdez, H., see UA1 Collaboration A305 (1991) 331
Castoldi, A., see Vacchi, A. A306 (1991) 187
Castoldi, M., see Gervino, G. A309 (1991) 497
Cates, G.D., see Holmes, R. A303 (1991) 226
Cavaletti, W.R., see Bellini, G. A305 (1991) 395
Cavallo, N., see Castellano, M. A304 (1991) 204
Cavanna, F., see Bacci, C. A301 (1991) 445
Cavanna, F., see UA1 Collaboration A305 (1991) 331
Cavanna, F., see RD3 Collaboration A309 (1991) 438
Cavenago, M. and G. Bisoffi, Optimization studies of a 14.4 GHz ECR ion source for the superconductive linac at Legnaro A301 (1991) 9
Cavestro, A., D. Gibin, A. Guglielmi, F. Mattioli, M. Mezzetto, P.G. Schiavon, G. Puglierin and M. Vascon, An analog mean-timer for long scintillation counters (*Letter to the Editor*) A305 (1991) 488
Cecchi, A., The preparation of osmium targets by electroplating A303 (1991) 102
Cecchi, A., see Pengo, R. A303 (1991) 146
Cei, F., see Baldini, A. A305 (1991) 475
Celletti, F., see Golden, R.L. A306 (1991) 366
Cennini, P., see Bettini, A. A305 (1991) 177
Cennini, P., see UA1 Collaboration A305 (1991) 331
Centro, S., see Bettini, A. A305 (1991) 177
Centro, S., see UA1 Collaboration A305 (1991) 331
Ceradini, F., see UA1 Collaboration A305 (1991) 331
Cerchioni, G., see Casagrande, F. A304 (1991) 536
Cerrina, F., see Sanchez del Rio, M. A301 (1991) 589
Cesana, A., see Calligarich, E. A307 (1991) 142
Cevenini, F., see Castellano, M. A304 (1991) 204
Cha, Y., see Badgett, W. A307 (1991) 231
Chaikin, E.M., see Artemiev, A.N. A308 (1991) 61
Chambon, B., F. Benrachi, B. Cheynis, D. Drain, C. Pastor, L. Vagneron, A. Giorini, D. Heuer, A. Lleres, J.B. Viano, D. Fabris, G. Nebbia, G. Prete and G. Viesti, Gaseous ΔE-type phoswiches A307 (1991) 333
Chambon, B., see Désesquelles, P. A307 (1991) 366
Chan, C.F., W.S. Cooper, J.W. Kwan and W.F. Steele, Dynamics of skew beams and the projectional emittance A306 (1991) 112

Chan, K.C.D. and G. Spalek, Cumulative beam breakup of the ground-based free electron laser A304 (1991) 329
Chan, K.C.D., see Wallace, R. A304 (1991) 400
Chang, P., see Bromberg, C. A307 (1991) 292
Chang, S.-L., see Chen, C.-H. A306 (1991) 584
Chang, Y.H., see Becker, U.J. A306 (1991) 194
Chang, Z.Y. and W. Sansen, Effect of $1/f$ noise on the resolution of CMOS analog readout systems for microstrip and pixel detectors A305 (1991) 553
Chantziantoniou, K., see Abegg, R. A306 (1991) 432
Chapman, J., see Badgett, W. A307 (1991) 231
Chaput, R., see Bourdon, J.C. A304 (1991) 322
Chardin, G., see Fréjus Collaboration A302 (1991) 406
Charmasson, B., see Dei-Cas, R. A304 (1991) 212
Charon, Y., see Bendali, M. A310 (1991) 373
Charon, Y., P. Laniece, M. Bendali, J.M. Gaillard, M. Leblanc, R. Mastrippolito, H. Tricoire and L. Valentin, A self triggered intensified CCD (STIC) A310 (1991) 379
Charpak, G., Y. Giomataris and L. Lederman, A trigger for beauty A306 (1991) 439
Charpak, G., P. Fonte, V. Peskov, F. Sauli, D. Scigocki and D. Stuart, Investigation of operation of a parallel-plate avalanche chamber with a CsI photocathode under high gain conditions A307 (1991) 63
Charpak, G., Light-emitting projection chambers for the study of rare processes in particle physics A310 (1991) 47
Charpak, G., see Imrie, D.C. A310 (1991) 122
Charpak, G., D. Lemenovski, V. Peskov and D. Scigocki, New photocathodes for fast gaseous detectors A310 (1991) 128
Charpak, G., see Giomataris, Y. A310 (1991) 589
Chase, R.L., see Ardelean, J. A305 (1991) 549
Chattopadhyay, S., see Kim, K.-J. A304 (1991) 233
Chauveau, J., see Hietanen, I. A305 (1991) 173
Chauveau, J., see Hempstead, M. A306 (1991) 207
Chauveau, J., see Hubbeling, L. A310 (1991) 197
Chauveau, J., see Hietanen, I. A310 (1991) 677
Chavanne, J., see Elleaume, P. A304 (1991) 719
Chavanne, J., see Elleaume, P. A308 (1991) 382
Chazipetros, J., see Kockelmann, W. A305 (1991) 435
Chechik, R., see Vartsky, D. A301 (1991) 96
Chechik, R., see Malamud, G. A307 (1991) 83
Chechik, R., see Dangendorf, V. A308 (1991) 519
Chechik, R., see Breskin, A. A310 (1991) 57
Chechin, A.I., see Artemiev, A.N. A308 (1991) 77
Chechin, A.I. and N.V. Smolyakov, Irregular structure undulator A308 (1991) 86
Chechin, A.I., see Kotrbova, M. A308 (1991) 456
Chehab, R., see Bergeret, H. A301 (1991) 389
Chen, C., see Adriani, O. A302 (1991) 53
Chen, C., B.G. Danly, J.A. Davies, W.L. Menninger, J.S. Wurtele and G. Zhang, CARM amplifier theory and simulation A304 (1991) 593
Chen, C.-H. and S.-L. Chang, Theoretical considerations on the design of three-beam X-ray monochromators for synchrotron radiation A306 (1991) 584
Chen, G.M., see Adriani, O. A302 (1991) 53
Chen, H.S., see Adriani, O. A302 (1991) 53
Chen, Jizhong, see Wang, M.C. A304 (1991) 116
Chen, J.X., see Wei, J.X. A306 (1991) 557
Chen, J.-Y., see Lu, L.-J. A309 (1991) 581
Chen, M.L., see Adriani, O. A302 (1991) 53
Chen, P., see Buon, J. A306 (1991) 93
Chen, W., see Li, Z. A308 (1991) 585
Chen, Y.R., see Chung, C. A301 (1991) 328
Chen Renhuai, see Zeng Jiyang A308 (1991) 616
Chen Shaoxing, see Zeng Jiyang A308 (1991) 616
Chen Yun-Dong, see McLaughlin, W.L. A302 (1991) 165
Chendvankar, S.R., see Adriani, O. A302 (1991) 53
Cheng, M., see Bettini, A. A305 (1991) 177
Cheremukhina, G.A., see Zanevsky, Yu.V. A310 (1991) 362
Cherkashin, A.E., see Devyatov, V.G. A308 (1991) 225
Chernenko, S.P., see Zanevsky, Yu.V. A310 (1991) 362

Cherney, M., see Andersen, E. . . . A301 (1991) 69
Chernov, V.A., see Dolbnya, I.P. . . . A308 (1991) 438
Chernyatin, V., see Shank, J.T. . . . A309 (1991) 377
Chesnokov, V.V., V.I. Fedchenko and V.P. Naz'mov, Study of SR beam line windows within the range of 17–80 nm . . . A308 (1991) 333
Chew, M.W.K., see Squire, J.M. . . . A310 (1991) 349
Cheynis, B., see Chambon, B. . . . A307 (1991) 333
Cheynis, B., see Désesquelles, P. . . . A307 (1991) 366
Chiarelli, G., see Cresti, M. . . . A306 (1991) 563
Chiarini, M., see Alvisi, C. . . . A305 (1991) 30
Chida, K., see Tanabe, T. . . . A307 (1991) 7
Chien, C-Y., see Akbari, H. . . . A302 (1991) 415
Chilingarian, A.A., see Aharonian, F.A. . . . A302 (1991) 522
Chilingarov, A., I. Dolbnya, S. Kurylo and K. Trützschler, Radiation damage of silicon microstrip detectors by 1.5 MeV electrons and synchrotron radiation . . . A310 (1991) 277
Chinellato, J.A., see Cresti, M. . . . A306 (1991) 563
Chinnici, S., see Vacchi, A. . . . A306 (1991) 187
Chiwaki, M., see Yamada, K. . . . A304 (1991) 86
Chiwaki, M., see Yamazaki, T. . . . A309 (1991) 343
Chizhov, V.A., see Yanovski, V.V. . . . A309 (1991) 596
Chkhalo, N.I., see Kruglyakov, E.P. . . . A308 (1991) 325
Chłopik, A., see Kręciejewski, M. . . . A301 (1991) 424
Cho, G., see Drewery, J.S. . . . A310 (1991) 165
Choi, E., see Ejiri, H. . . . A302 (1991) 482
Chou, Y.P., see Marshall, T.C. . . . A304 (1991) 683
Choudhary, B.C., see Bromberg, C. . . . A307 (1991) 292
Chrin, J.T.M., see Allison, J. . . . A310 (1991) 527
Christophorou, L.G., P.G. Datskos and J.G. Carter, Gases of possible interest to SSC muon detectors . . . A309 (1991) 160
Chung, C. and Y.R. Chen, Application of a germanium detector as a low flux neutron monitor . . . A301 (1991) 328
Chung, W.H., see Bromberg, C. . . . A307 (1991) 292
Chupp, T.E., see Richardson, J.M. . . . A306 (1991) 291
Church, M.D., see Bartoszek, L. . . . A301 (1991) 47
Cifarelli, L., see Alvisi, C. . . . A305 (1991) 30
Cikmach, P., see Balerna, A. . . . A308 (1991) 234
Cikmach, P., see Balerna, A. . . . A308 (1991) 240
Cima, E., see Babusci, D. . . . A305 (1991) 19
Cinabro, D., see Atwood, W.B. . . . A306 (1991) 446
Cindolo, F., see Alvisi, C. . . . A305 (1991) 30
Cindro, V., H. Kolanoski, A. Lange, D. Lauterjung, F. Müller, T. Siegmund, W. Söder and H. Thurn, Measurement of spatial resolutions and drift velocities in a drift-chamber filled with a helium–DME mixture . . . A309 (1991) 411
Ciocci, F., A. Doria, G.P. Gallerano, M.F. Kimmitt, G. Messina, A. Renieri and J.E. Walsh, Recent results on the Cherenkov FEL at the ENEA submillimeter FEL facility . . . A304 (1991) 17
Ciocci, F., see Castellano, M. . . . A304 (1991) 204
Ciocci, F., see Barbagelata, L. . . . A304 (1991) 703
Ciocio, A., see Bettini, A. . . . A305 (1991) 177
Ciralli, F., see Alvisi, C. . . . A305 (1991) 30
Cirio, R., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Cittolin, S., see Bettini, A. . . . A305 (1991) 177
Civinini, C., see Adriani, O. . . . A302 (1991) 53
Cizeron, R., D. Fournier, J.M. Noppe, O. Perderau and A.C. Schaffer, Results from beam tests of a 2.4 m straw chamber . . . A307 (1991) 286
Claeys, C., see Vanstraelen, G. . . . A305 (1991) 541
Clara, M.P., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Clark, D.A., see Drake, D.M. . . . A309 (1991) 575
Clarke, J.A., The use of an optoelectronic semiconductor for monitoring electron beam position at the Daresbury Synchrotron Radiation Source . . . A310 (1991) 418
Clayton, J., W. Benenson, N. Levinsky, J.D. Stevenson, M.F. Mohar, E. Hallin, J.C. Bergstrom, H.S. Caplan, R.E. Pywell, D.M. Skopik and J.M. Vogt, Response of a BaF_2 detector to photons from 75 to 200 MeV . . . A305 (1991) 116
Clegg, T.B., see Mooney, T.M. . . . A307 (1991) 185
Clegg, T.B., see Crosson, E.R. . . . A310 (1991) 703

Clem, R.G. and R.M. Lambrecht, Enriched ^{124}Te targets for production of ^{123}I and ^{124}I A303 (1991) 115
Clifton, I.J., V. Fulop, A.T. Hadfield, P. Nordlund, I. Andersson and J. Hajdu, Macromolecular structure, function and dynamics by fast crystallography with synchrotron radiation A303 (1991) 476
Cline, D., see Bettini, A. A305 (1991) 177
Cline, D.B., see Aghamir, F. A304 (1991) 155
Clouet, P., see Bois, R. A304 (1991) 315
Coc, A., R. Fergeau, R. Grabit, M. Jacotin, J.F. Kepinski, R. Le Gac, G. Le Scornet, G. Petrucci, M. de Saint Simon, G. Stefanini, C. Thibault and F. Touchard, Field mapping and corrections of the magnet of a radio-frequency mass spectrometer A305 (1991) 143
Codino, A., see Brunetti, M.T. A302 (1991) 362
Codino, A., see Golden, R.L. A306 (1991) 366
Cohen, M., A. Gover and S. Ruschin, A scheme for XUV generation based on a laser-pumped FEL with an axial electric field A304 (1991) 673
Cohler, M., see Andersen, E. A301 (1991) 69
Colangelo, S., see Calligarich, E. A307 (1991) 142
Colas, J., see RD3 Collaboration A309 (1991) 438
Colavita, A., see Battaoitto, P. A301 (1991) 265
Cole, A.J., see Désesquelles, P. A307 (1991) 366
Colinge, J.-P., An overview of CMOS-SOI technology and its potential use in particle detection systems A305 (1991) 615
Colino, N., see Adeva, B. A309 (1991) 318
Collier, J., K. McCarthy and C.H. Whitford, The operation of CCD X-ray detectors in a spacecraft environment A310 (1991) 565
Colson, W.B., see Blau, J. A304 (1991) 436
Colson, W.B., see Kiel, D.H. A304 (1991) 453
Colson, W.B., see Cord, G.A. A304 (1991) 601
Colson, W.B., see Gillingham, D.R. A304 (1991) 617
Colson, W.B., see Park, J.-H. A304 (1991) 641
Colson, W.B., see Souza, R. A304 (1991) 687
Colson, W.B., see Craun, D. A304 (1991) 714
Colson, W.B., P. Elleaume, V.N. Litvinenko, K.-J. Kim, G. Ramian, T.M. Antonsen, A. Gover, D. Oepts, A.H. Lumpkin and S. Benson, Panel summary on the ultimate FEL bandwidth A304 (1991) 822
Combley, F.H., see Buttar, C.M. A310 (1991) 208
Comby, G., see Hempstead, M. A306 (1991) 207
Conat, S., see Audit, G. A301 (1991) 473
Conde, C.A.N., see Dias, T.H.V.T. A307 (1991) 341
Conde, C.A.N., see Santos, F.P. A307 (1991) 347
Conde, C.A.N., see Dias, T.H.V.T. A310 (1991) 137
Congiu-Castellano, A., see La Monaca, A. A310 (1991) 403
Connolly, J.F., see Suckling, J. A310 (1991) 465
Conte, R., see UA1 Collaboration A305 (1991) 331
Conti, E., see Bressi, G. A310 (1991) 613
Contin, A., see Alvisi, C. A305 (1991) 30
Conway, J., see Atwood, W.B. A306 (1991) 446
Conway, J.S., see Bellantoni, L. A310 (1991) 618
Cooke, J., see Oh, S.H. A303 (1991) 277
Cooper, M.D., see Armijo, V. A303 (1991) 298
Cooper, W.S., see Chan, C.F. A306 (1991) 112
Copley, J.R.D., Acceptance diagram analysis of the performance of vertically curved neutron monochromators A301 (1991) 191
Copley, J.R.D., Transmission properties of a counter-rotating pair of disk choppers A303 (1991) 332
Copley, J.R.D., Scattering effects within an absorbing sphere immersed in a field of neutrons A307 (1991) 389
Coquette, A., Une analyse d'une déformation, aux basses énergies de spectres de photons relevés au moyen d'un HPGe A309 (1991) 248
Cord, G.A., W.B. Colson and J. Frisch, Comparing simulations and experimental observations of the trapped-particle instability in the Stanford FEL A304 (1991) 601
Corriveau, F., see ZEUS Calorimeter Group A309 (1991) 101
Corvisiero, P., see Mazzaschi, L. A305 (1991) 391
Corvisiero, P., see Ricco, G. A307 (1991) 374
Corvisiero, P., see Gervino, G. A309 (1991) 497
Cosmo, F., see Rudolf, G. A307 (1991) 325
Costa, G., see RD3 Collaboration A309 (1991) 438
Costa, G.J., see Moszyński, M. A307 (1991) 97

Costa, M., see Alvisi, C. . . . A305 (1991) 30
Cotta-Ramusino, A., see Bianco, S. . . . A305 (1991) 48
Cotton, R., see Acton, P. . . . A305 (1991) 504
Couchot, F., see Buon, J. . . . A306 (1991) 93
Couprie, M.-E., N.G. Gavrilov, G.N. Kulipanov, V.N. Litvinenko, I.V. Pinaev, V.M. Popik, A.N. Skrinsky and N.A. Vinokurov, The results of lasing linewidth narrowing on the VEPP-3 storage ring optical klystron . . . A308 (1991) 39
Couprie, M.E., see Bourgeois, P. . . . A301 (1991) 150
Couprie, M.E., N.G. Gavrilov, G.N. Kulipanov, V.N. Litvinenko, I.V. Pinaev, V.M. Popik, A.N. Skrinsky and N.A. Vinokurov, The results of lasing linewidth narrowing on the VEPP-3 storage ring optical klystron . . . A304 (1991) 47
Couprie, M.E., M. Velghe, R. Prazeres and M. Billardon, Study of the transverse modes on the Super-ACO FEL . . . A304 (1991) 53
Couprie, M.E., M. Velghe, D. Jaroszynski and M. Billardon, Mutual influence of the coherent synchrotron oscillations of the Super-ACO positron beam on the FEL . . . A304 (1991) 58
Couprie, M.E., see Prazeres, R. . . . A304 (1991) 72
Couprie, M.E., P. Bourgeois, P.J. Carlos, J.L. Fallou, P. Garganne, A. Leprêtre, J. Martin and J.M. Ortega, The POOPO undulator for the CLIO experiment . . . A304 (1991) 710
Court, G.R., see Roser, T. . . . A301 (1991) 42
Courtijn, E., see Ingelbrecht, C. . . . A303 (1991) 119
Cova, S., see Ripamonti, G. . . . A310 (1991) 184
Cover, R.A., Modeling and performance of a single-electron-beam two-FEL system . . . A304 (1991) 607
Cowan, G., see Atwood, W.B. . . . A306 (1991) 446
Cowen, D.F., see Atwood, W.B. . . . A306 (1991) 446
CPLEAR Collaboration, see Kręciejewski, M. . . . A301 (1991) 424
Crabb, D.G., see Roser, T. . . . A301 (1991) 42
Craun, D. and W.B. Colson, Undulator fields and electron trajectories at the end of a helical undulator . . . A304 (1991) 714
Crawford, G., see Bebek, C. . . . A302 (1991) 261
Crawford, H.J., see Doke, T. . . . A302 (1991) 290
Cremer, T., see Tatchyn, R. . . . A308 (1991) 152
Crennell, D.J., see WA84 Collaboration . . . A310 (1991) 485
Cresti, M., L. Peruzzo, A. Pesci, A. Saggion, G. Sartori, F. Angelini, F. Bedeschi, R. Bellazzini, E. Bertolucci, G. Chiarelli, M. Mariotti, M.M. Massai, A. Menzione, D.A. Smith, A. Stefanini, F. Zetti, A. Scribano, B. Bartoli, M. Budinich, F. Liello, E. Milotti, A.R.P. Biral, J.A. Chinellato, A. Turtelli and M. Luksys, A method to measure the γ-ray content in VHE cosmic ray showers . . . A306 (1991) 563
Creti, P., see Antoniazzi, L. . . . A307 (1991) 312
Crilly, J.F., see Hawkesworth, M.R. . . . A310 (1991) 423
Crittenden, J.A., see ZEUS Calorimeter Group . . . A309 (1991) 101
Croft, S. and M. Bailey, The determination of the absolute response function of a deuterated benzene total energy detector to 6.13 MeV γ-rays . . . A302 (1991) 315
Croft, S., The absolute yield, angular distribution and resonance widths of the 6.13, 6.92 and 7.12 MeV photons from the 340.5 resonance of the $^{19}F(p, \alpha\gamma)^{16}O$ reaction . . . A307 (1991) 353
Crosson, E.R., T.B. Clegg, H.J. Karwowski and S.K. Lemieux, Optimization of the performance of rf transitions for the TUNL atomic beam polarized ion source (*Letter to the Editor*) . . . A310 (1991) 703
Csonka, P., see Tatchyn, R. . . . A308 (1991) 152
Cui, X., see Adriani, O. . . . A302 (1991) 53
Culhane, J.L., Position sensitive detectors in X-ray astronomy . . . A310 (1991) 1
Cumalat, J.P., see Xi, J. . . . A301 (1991) 219
Cummings, S., see Laundy, D. . . . A302 (1991) 553
Currie, A., see Dowell, D.H. . . . A304 (1991) 1
Currie, A., see Laucks, M.L. . . . A304 (1991) 25
Currie, A., see Dowell, D.H. . . . A304 (1991) 336
Cvach, J., see Antoš, J. . . . A302 (1991) 277
Czapek, G., U. Moser, K. Pretzl, J. Boniface, L. Gonzales-Mestres, C. Nogues, M.C. Perillo Isaac, D. Perret-Gallix, P. Freund and H.-J. Gebauer, Superheated superconducting granule device: detection of minimum ionizing particles . . . A306 (1991) 572
Czellar, S., see Alekseev, G.D. . . . A305 (1991) 344

Da Cruz, M.T.F., see Procida Veissid, V.L.C. . . . A309 (1991) 222
Da Vià, C., see WA84 Collaboration . . . A310 (1991) 485
Dąbrowski, W., K. Korbel and A. Skoczeń, Fast neutron damage of silicon PIN photodiodes . . . A301 (1991) 288
D'Agostino, M., see Bruno, M. . . . A305 (1991) 410
Dahmen, H.D., see Arends, J. . . . A306 (1991) 89

Dai, G.H., A.W. Weeber and P.E. Mijnarends, Reconstructed intensity distribution of the positron source used in two-dimensional measurements of the angular correlation of annihilation radiation A306 (1991) 261
Dai Hong-gui, see Zheng Zheng A301 (1991) 337
Dainese, B., see Bettini, A. A305 (1991) 177
Dainton, J.B., see Grässler, H. A310 (1991) 535
Dake, A., see ZEUS Calorimeter Group A309 (1991) 101
D'Alessandro, R., see Adriani, O. A302 (1991) 53
Dambra, R., G. Gallinaro, F. Gatti and S. Vitale, Properties of ruthenium oxide resistors as sensitive elements of composite bolometers A302 (1991) 83
D'Ambrosio, C., H. Leutz, M. Taufer, T. Shimizu, O. Shinji and J. Sun, Reflection losses in polystrene fibres . A306 (1991) 549
D'Ambrosio, C., H. Leutz, S. Tailhardat, M. Taufer, P. Destruel, D. Puertolas and H. Güsten, Organic scintillators with large Stokes shifts dissolved in polystyrene A307 (1991) 430
Damerell, C.J.S., see Acton, P. A305 (1991) 504
Dameri, M., see WA82 Collaboration A309 (1991) 401
Danared, H., see Tyrroff, H. A301 (1991) 591
D'Angelo, A., see Babusci, D. A305 (1991) 19
D'Angelo, A., see Mazzaschi, L. A305 (1991) 391
D'Angelo, P., see Bellini, G. A305 (1991) 395
D'Angelo, S., see Belli, P. A310 (1991) 150
Dangendorf, J., see Badura, A. A310 (1991) 441
Dangendorf, V., A. Breskin, R. Chechik and H. Schmidt-Böcking, Progress in ultrafast CsI-photocathode gaseous imaging photomultipliers A308 (1991) 519
Dangendorf, V., see Breskin, A. A310 (1991) 57
Daniello, L., see Bianco, S. A305 (1991) 48
Danilovich, V.S., see Trunova, V.A. A308 (1991) 321
Danly, B.G., see Pendergast, K.D. A304 (1991) 121
Danly, B.G., see Chen, C. A304 (1991) 593
Dannemann, A., see ZEUS Calorimeter Group A309 (1991) 101
D'Annunzio, F., see Lewis, R. A310 (1991) 70
Daryin, A.V., V.B. Baryshev and K.V. Zolotarev, Scanning X-ray fluorescence microanalysis of phosphorites from the underwater mountains of the Pacific A308 (1991) 318
Dasgupta, P.K., see Roy, A. A303 (1991) 342
Dassie, D., Ph. Hubert, M.C.P. Isaac, C. Izac, F. Leccia, P. Mennrath, C. Longuemare, D. Blum, J. Busto, J.E. Campagne, S. Jullian, D. Lalanne, F. Laplanche, F. Natchez, G. Szklarz, T. Lamhamdi, I. Linck and F. Scheibling, Double beta decay prototype detector with multiwire drift tubes in the Geiger mode A309 (1991) 465
Datskos, P.G., see Christophorou, L.G. A309 (1991) 160
Dattoli, G., see Castellano, M. A304 (1991) 204
Dattoli, G., L. Giannessi, L. Mezi, A. Torre and R. Caloi, FEL time-evolution operator A304 (1991) 541
Daubie, E., see Buytaert, J. A310 (1991) 596
Dauchy, A., see Désesquelles, P. A307 (1991) 366
Daum, H.J., see Fréjus Collaboration A302 (1991) 406
D'Auria, S., see Alvisi, C. A305 (1991) 30
Davenport, M., see WA82 Collaboration A309 (1991) 401
Davies, J.A., see Chen, C. A304 (1991) 593
Davies, O.W., see Allison, J. A310 (1991) 527
Davis, C.A., see Abegg, R. A306 (1991) 432
Davis, C.A., see Berdoz, A.R. A307 (1991) 26
Davis, J.G., see Aghamir, F. A304 (1991) 155
Davis, J.M., see Templer, R.H. A310 (1991) 232
Davis, K., see Takeda, H. A304 (1991) 396
Davison, N.E., see Abegg, R. A306 (1991) 432
Davison, N.E., see Berdoz, A.R. A307 (1991) 26
Dawber, P., see Tagziria, H. A303 (1991) 123
Dawber, P.G., see Pauwels, J. A303 (1991) 133
Dawson, I., see Buttar, C.M. A310 (1991) 208
Dawson, J., see ZEUS Calorimeter Group A309 (1991) 101
De, S.K., see Roy, A. A303 (1991) 342
De Angelis, A., see Bortolotto, C. A306 (1991) 459
de Barbaro, P., see King, B.J. A302 (1991) 254
De Boeck, L., see Buytaert, J. A310 (1991) 596
De Brion, J.P., see Dei-Cas, R. A304 (1991) 215

De Brion, J.P., see Aucouturier, J. . . . A304 (1991) 305
De Brion, J.P., see Balleyguier, P. . . . A304 (1991) 308
De Brion, J.P., S. Joly and F. Schumann, Simulation of the ELSA photo-injector with the TBCI-SF code A304 (1991) 333
de Castro, A.R.B. and R. Reininger, Performance of a SX-700 monochromator exposed to wiggler radiation: coupled ray tracing and finite-element approach A307 (1991) 135
De Cataldo, G., see Bellotti, R. . . . A305 (1991) 192
De Clercq, C., see Buytaert, J. . . . A310 (1991) 596
De Corte, F., see Ingelbrecht, C. . . . A303 (1991) 119
De Giorgi, M., see UA1 Collaboration . . . A305 (1991) 331
De Haan, V.O., see Van Well, A.A. . . . A309 (1991) 284
De Jager, C.W., see Fonte, R. . . . A307 (1991) 80
De Jong, P., see ZEUS Calorimeter Group . . . A309 (1991) 101
de la Cruz, B., see Andersen, E. . . . A301 (1991) 69
De la Taille, C., see Moreau, F. . . . A306 (1991) 309
De Marzo, C., see Bellotti, R. . . . A305 (1991) 192
de Mascureau, J., see Bottollier-Curtet, H. . . . A304 (1991) 197
de Mascureau, J., see Bardy, J. . . . A304 (1991) 311
de Mascureau, J., see Launspach, J. . . . A304 (1991) 368
de Mey, B., The possibilities for design in ESPRIT-EUROCHIP . . . A305 (1991) 628
De Min, A., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
de Notaristefani, F., see Allegretti, F. . . . A302 (1991) 455
de Pablos, J.L., see Olmos, P. . . . A302 (1991) 91
De Pascale, M.P., see Golden, R.L. . . . A306 (1991) 366
De Pasquale, S., see Alvisi, C. . . . A305 (1991) 30
De Penquer, Y., see Dei-Cas, R. . . . A304 (1991) 215
De Penquer, Y., see Bois, R. . . . A304 (1991) 315
De Remigis, P., see Bonazzola, G.C. . . . A306 (1991) 305
de Saint Simon, M., see Coc, A. . . . A305 (1991) 143
De Sanctis, E., see Mazzaschi, L. . . . A305 (1991) 391
De Vincenzi, M., see WA84 Collaboration . . . A310 (1991) 485
De Voigt, M.J.A., see Rijken, H.A. . . . A310 (1991) 171
De Vries, H., see Fonte, R. . . . A307 (1991) 80
De Wispelaere, A., see Ingelbrecht, C. . . . A303 (1991) 119
De Zorzi, G., see Bini, C. . . . A306 (1991) 467
Deacon, D.A.G., see Bamford, D.J. . . . A304 (1991) 667
Dean, A.J., see Bird, A.J. . . . A310 (1991) 323
Dean, A.J., see Malaguti, G. . . . A310 (1991) 337
DeBarbaro, L., see Bromberg, C. . . . A307 (1991) 292
Debenham, P.H., R.L. Ayres, W.A. Cassatt, B.C. Johnson, R.G. Johnson, E.R. Lindstrom, P.J. Liposky, A.B. Marella, D.L. Mohr, J.K. Whittaker, N.D. Wilkin, M.A.D. Wilson, C.M. Tang, P. Sprangle and S. Penner, Status report on the NIST–NRL free electron laser . . . A304 (1991) 208
Debruyne, J., see Bruyndonckx, P. . . . A310 (1991) 107
Debusschere, I., see Vanstraelen, G. . . . A305 (1991) 541
Decamp, D., see ALEPH Collaboration . . . A303 (1991) 393
Declerck, G., see Vanstraelen, G. . . . A305 (1991) 541
Decowski, P., see Schotanus, P. . . . A310 (1991) 523
Dedek, U., see Storb, Ch. . . . A306 (1991) 544
Defoix, C., A method to estimate the momentum and the decay proper time of the B mesons from their hadronic and semileptonic decays . . . A302 (1991) 119
Defontaines, F., see Buytaert, J. . . . A310 (1991) 596
Degond, P., see Adolf, A. . . . A304 (1991) 297
Degrange, B., see Fréjus Collaboration . . . A302 (1991) 406
Dei-Cas, R., A. Bensussan, M. Simon, G. Faillon, C. Tremaud, R.B. Boux, B. Besson, J. Bonnier, B. Charmasson and J. Guidevaux, The 433 MHz rf generator for the ELSA-FEL experiment . . . A304 (1991) 212
Dei-Cas, R., P. Balleyguier, M.A. Beuve, A. Binet, J.P. Blésés, A. Bloquet, R. Bois, Cl. Bonetti, J. Brisset, J.P. De Brion, J. Di Crescenzo, J.M. Dolique, R. Faujour, P. Fourdin, J. Fréhaut, M. Guilloud, G. Haouat, D. Iracane, R. Joly, S. Joly, J.P. Laget, Cl. Laspalles, H. Leboutet, J.G. Marmouget, D. Masseron, P. Michaud, Y. De Penquer, Y. Pranal, S. Seguin, S. Striby, F. Schumann and J. Vouillarmet, Overview of the FEL activities at Bruyères-le-Châtel . . . A304 (1991) 215
Dei-Cas, R., see Balleyguier, P. . . . A304 (1991) 308
Dei-Cas, R., see Binet, A. . . . A304 (1991) 707

Del Guerra, A., see Bencivelli, W. . . . A305 (1991) 574
Del Guerra, A., W.R. Nelson and P. Russo, A simple method to introduce K-edge sampling for compounds in the code EGS4 for X-ray element analysis . . . A306 (1991) 378
Del Guerra, A., see Bencivelli, W. . . . A310 (1991) 210
Del Papa, C., see Alvisi, C. . . . A305 (1991) 30
del Peso, J. and E. Ros, Fast simulation of electromagnetic showers in the ZEUS calorimeter . . . A306 (1991) 485
Delaunay, M., B. Jacquot et M. Pontonnier, Exploration axiale du plasma RCE d'une source d'ions multichargés CAPRICE . . . A305 (1991) 223
Delheij, P.P.J., see Abegg, R. . . . A306 (1991) 432
Delhez, J.L., see Botman, J.I.M. . . . A304 (1991) 192
Della Negra, M., see UA1 Collaboration . . . A305 (1991) 331
Delmee, P.F.M., see van Amersfoort, P.W. . . . A304 (1991) 163
Delo, L., see Takeda, H. . . . A304 (1991) 396
DELPHI Collaboration, The DELPHI detector at LEP . . . A303 (1991) 233
Delpierre, P. and J.J. Jaeger, A sparse data scan circuit for pixel detector chips . . . A305 (1991) 627
Demaria, N., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Dementyev, E.N., I.P. Dolbnya, S.G. Kurylo, N.A. Mezentsev, V.F. Pindyurin and M.A. Sheromov, The experimental station for X-ray microscopy and microtomography at the VEPP-3 storage ring . . . A308 (1991) 352
Demidovitch, N.N., see Alexandrov, A.A. . . . A303 (1991) 323
Demyanov, G.V., V.A. Orlov, A.V. Titov, K.N. Shorin and A.S. Yarov, Dynamics of the Stokes parameters of synchrotron radiation . . . A308 (1991) 149
Demyanov, G.V., N.K. Kurek, E.N. Lapshin, T.I. Syrejshchikova and M.N. Yakimenko, Protein fluorescence decay of human serum with a very low density of lipoproteins exposed to synchrotron radiation . . . A308 (1991) 215
Den Hartog, H.W., see Dorenbos, P. . . . A310 (1991) 236
Denby, B., see Lindsey, C.S. . . . A302 (1991) 217
Denisov, A.G., S.V. Golovkin, A.M. Gorin, E.N. Kozarenko, A.E. Kushnirenko, A.M. Medvedkov, A.I. Peresypkin, S.V. Petrenko, Yu.P. Petukhov, V.I. Rykalin, V.E. Tyukov, V.G. Vasil'chenko and A.A. Zaichenko, High resolution tracking detector based on capillaries with a liquid scintillator . . . A310 (1991) 479
Denisov, D.S., On using CF_4 as working gas for drift tubes . . . A306 (1991) 200
Denisov, E.I., V.I. Glebov and N.K. Zhevago, Focusing of X-rays using tapered waveguides . . . A308 (1991) 400
Dennis, L.C., see Frawley, A.D. . . . A306 (1991) 512
DePedis, D., see Bähr, J. . . . A306 (1991) 169
D'Erasmo, G., see Paticchio, V. . . . A305 (1991) 150
Derrick, M., D. Gacek, N. Hill, B. Musgrave, R. Noland, E. Petereit, J. Repond, R. Stanek and K. Sugano, Design and construction of the ZEUS barrel calorimeter . . . A309 (1991) 77
Derzhiev, V.I., see Sidorkin, S.F. . . . A306 (1991) 240
DeSalvo, R., see Acosta, D. . . . A302 (1991) 36
DeSalvo, R., see Acosta, D. . . . A305 (1991) 55
DeSalvo, R., see Acosta, D. . . . A308 (1991) 481
DeSalvo, R., see Acosta, D. . . . A309 (1991) 143
Désesquelles, P., A.J. Cole, A. Dauchy, A. Giorni, D. Heuer, A. Lleres, C. Morand, J. Saint-Martin, P. Stassi, J.B. Viano, B. Chambon, B. Cheynis, D. Drain and C. Pastor, Cross talk and diaphony in neutron detectors . . . A307 (1991) 366
Dési, S., A low noise figure nuclear spectroscopy amplifier (*Letter to the Editor*) . . . A305 (1991) 214
DeSoi, W., see Bromberg, C. . . . A307 (1991) 292
Destler, W.W., see Bidwell, S.W. . . . A304 (1991) 187
Destruel, P., see D'Ambrosio, C. . . . A307 (1991) 430
Detemple, P., see Arends, J. . . . A306 (1991) 89
D'Ettorre Piazzoli, B., see Bilokon, H. . . . A303 (1991) 381
Devereux, M., see Garnett, R. . . . A309 (1991) 508
Devin, A., see Bottollier-Curtet, H. . . . A304 (1991) 197
Devin, A., see Launspach, J. . . . A304 (1991) 368
Devitsin, E.G., see Britvich, G.I. . . . A308 (1991) 509
Devyatov, V.G., A.E. Cherkashin and S.V. Koshcheev, Chemical composition, state of oxygen and its reaction ability on zinc oxide according to XPS and UPS SR data . . . A308 (1991) 225
Dewitt, J., see Sadrozinski, H.F.-W. . . . A310 (1991) 557
Dhez, P., see Basov, Yu.A. . . . A308 (1991) 363
D'Hondt, P., see Ingelbrecht, C. . . . A303 (1991) 119
D'Hondt, P., see Eykens, R. . . . A303 (1991) 152
D'Hose, N., see Audit, G. . . . A301 (1991) 473
Di Cocco, G., see Malaguti, G. . . . A310 (1991) 337
Di Corato, M., see Bellini, G. . . . A305 (1991) 395

Di Cosimo, G., see Bini, C. A306 (1991) 467
Di Crescenzo, J., see Dei-Cas, R. A304 (1991) 215
Di Crescenzo, J., see Balleyguier, P. A304 (1991) 308
Di Domenico, A., see Bini, C. A306 (1991) 467
Di Mauro, L.F., see Ben-Zvi, I. A304 (1991) 181
Di Paolo, M., see WA84 Collaboration A310 (1991) 485
Di Vita, G., see WA84 Collaboration A310 (1991) 485
Diambrini Palazzi, G., see Bini, C. A306 (1991) 467
Dias, T.H.V.T., F.P. Santos, A.D. Stauffer and C.A.N. Conde, The Fano factor in gaseous xenon: a Monte Carlo calculation for X-rays in the 0.1 to 25 keV energy range A307 (1991) 341
Dias, T.H.V.T., see Santos, F.P. A307 (1991) 347
Dias, T.H.V.T., F.P. Santos and C.A.N. Conde, The primary electron cloud in xenon for X-rays in the 0.1 to 10 keV range A310 (1991) 137
DiCiaccio, A., see UA1 Collaboration A305 (1991) 331
Diebold, G.E., see Andersen, E. A301 (1991) 69
Dierickx, B., Position-encoding smart pixel arrays A305 (1991) 561
Dierks, K., see ZEUS Calorimeter Group A309 (1991) 101
Diez-Hedo, F.J., see Bacci, C. A301 (1991) 445
Diez-Hedo, F.J., see UA1 Collaboration A305 (1991) 331
DiGiacomo, N.J., see Adams, T. A306 (1991) 128
Ding, H.L., see Masuda, K. A309 (1991) 489
Dionisio, J.S., Z. Méliani, C. Schück and Ch. Vieu, Influence of target properties on prompt in-beam electron spectra A303 (1991) 9
Dipace, A., see Castellano, M. A304 (1991) 204
Dlugosz, W., see Bromberg, C. A307 (1991) 292
Döbbeling, H., see Backenstoss, G. A310 (1991) 518
Dobberstein, M.P., F. Krawczyk and M. Schäfer-Jotter, The optimization of the electrostatic field inside the ZEUS forward drift chambers: calculations and measurements A306 (1991) 474
Dobbins, J., see Bebek, C. A302 (1991) 261
Dodd, J.W., see Bhattacharjee, A. A304 (1991) 99
Dodd, J.W., see Aghamir, F. A304 (1991) 155
Dogru, M., see Buttar, C.M. A310 (1991) 208
Doke, T., H.J. Crawford, J.M. Engelage, I. Flores, L. Greiner, T. Kashiwagi, J. Kikuchi, K. Masuda, K. Nishijima, E. Shibamura and T.J.M. Symons, Sampling calorimeter for high energy heavy particles filled with allene-doped liquid argon A302 (1991) 290
Doke, T., see Ichinose, H. A305 (1991) 111
Doke, T., see Masuda, K. A309 (1991) 489
Dolbnya, I., see Chilingarov, A. A310 (1991) 277
Dolbnya, I.P., see Dementyev, E.N. A308 (1991) 352
Dolbnya, I.P., G.N. Gavrilov, N.A. Mezentsev, V.F. Pindyurin and M.A. Sheromov, X-ray focusing monochromator for an X-ray scanning microscopy and microtomography station A308 (1991) 416
Dolbnya, I.P., see Barsukov, V.P. A308 (1991) 419
Dolbnya, I.P., B.A. Knyazev, V.P. Simonov and G.G. Feldman, Measuring the absolute sensitivity of an X-ray electron-optical image converter in the range 7–20 keV A308 (1991) 435
Dolbnya, I.P. and V.A. Chernov, Nontraditional X-ray narrow-band-pass filter-polarimeter A308 (1991) 438
Dolgoshein, B., see Shank, J.T. A309 (1991) 377
Dolgosheina, E., T. Taylor and W.J. Willis, Field shaping by iron for muon measurement at hadron colliders . A301 (1991) 451
Dolique, J.M., see Dei-Cas, R. A304 (1991) 215
Dollinger, G. and P. Maier-Komor, Development of laser plasma ablation-deposition techniques for carbon stripper foils A303 (1991) 50
Dollinger, G., P. Maier-Komor and A. Mitwalsky, Structure investigations of thin carbon foils A303 (1991) 79
Dollinger, G., see Maier-Komor, P. A303 (1991) 88
Dollinger, G., see Maier-Komor, P. A303 (1991) 168
Dominick, J., see Bebek, C. A302 (1991) 261
Donahue, J.F., see Becker, U.J. A306 (1991) 194
Donahue, R., see James, M. A307 (1991) 207
Dorenbos, P., R. Visser, C.W.E. van Eijk, R.W. Hollander and H.W. den Hartog, X-ray and gamma ray luminescence of Ce^{3+} doped BaF_2 crystals A310 (1991) 236
Dorenbosch, J., see Botlo, M. A302 (1991) 331
Dorfan, D.E., see Sadrozinski, H.F.-W. A310 (1991) 557
Doria, A., see Ciocci, F. A304 (1991) 17

Doria, A., see Bartolini, R. A304 (1991) 417
Dorofeyev, O.F., see Lysov, B.A. A308 (1991) 115
Doronkin, Yu.V., see Artemiev, A.N. A308 (1991) 61
Doucet, H.J., Panel discussion on Raman FELs A304 (1991) 825
Dowell, D.H., M.L. Laucks, A.R. Lowrey, M. Bemes, A. Currie, P. Johnson, K. McCrary, L. Milliman, C. Lancaster, J. Adamski, D. Pistoresi, D.R. Shoffstall, M. Bentz, R. Burns, J. Guha, R. Hudyma, K. Sun, W. Tomita, W. Mower, S. Bender, J. Goldstein, A.H. Lumpkin, B. McVey, R. Tokar and D. Shemwell, First operation of a free electron laser using a ring resonator A304 (1991) 1
Dowell, D.H., see Laucks, M.L. A304 (1991) 25
Dowell, D.H., M.L. Laucks, A.R. Lowrey, M. Bemes, A. Currie, P. Johnson, K. McCrary, J. Adamski, D.R. Shoffstall, A.H. Lumpkin and R.L. Tokar, Improving electron beam quality of the Boeing free electron laser A304 (1991) 336
Dowell, D.H., see Goldstein, J.C. A304 (1991) 622
Dozorov, A.V., see Artemiev, A.N. A308 (1991) 61
Drabkin, G.M., see Alefeld, B. A306 (1991) 300
Dracos, M. and D. Loukas, Experimental study of the single photoelectron response of the DELPHI Barrel RICH MWPCs A302 (1991) 241
Drain, D., see Chambon, B. A307 (1991) 333
Drain, D., see Désesquelles, P. A307 (1991) 366
Drake, D.M., S.A. Wender, R.O. Nelson, D.A. Clark, M. Drosg, W. Amian, J. Brückner and P.A.J. Englert, Experimental simulation of martian neutron leakage spectra A309 (1991) 575
Drake, T.E., see Galindo-Uribarri, A. A301 (1991) 457
Dransfield, G., see Hylen, J. A310 (1991) 497
Drapchinsky, L.V. and S.M. Soloviev, Targets in the experiments at the KRI A303 (1991) 19
Drewery, J.S., G. Cho, I. Fujieda, T. Jing, S.N. Kaplan, V. Perez-Mendez, D. Wildermuth and R.A. Street, Amorphous silicon pixel arrays A310 (1991) 165
Drews, G., see ZEUS Calorimeter Group A309 (1991) 101
Dreyer, T., M. Erdmann, J. Haas, W. Mohr, U. Seidler, G. Siegert, H.E. Stier and M. Wilhelm, Calibration and validation of a time of flight detector A309 (1991) 184
Drijard, D., see Bacci, C. A301 (1991) 445
Drijard, D., see UA1 Collaboration A305 (1991) 331
Drobyazko, I.B., D.G. Emelyanenkov, Yu.M. Litvinov, A.L. Rogalev and V.K. Fedorov, Polarized fluorescence EXAFS-studies of HTSC thin films A308 (1991) 243
Drosg, M., see Drake, D.M. A309 (1991) 575
Drozdowicz, K., M. Hoek and D. Aronsson, Energy calibration of neutron detectors for the neutron spectrometer TANSY A306 (1991) 315
Drukier, A.K., see Le Gros, M. A310 (1991) 224
Druyts, S., see Eykens, R. A303 (1991) 152
Duane, A., see WA84 Collaboration A310 (1991) 485
Dubbers, D., see Bitter, T. A309 (1991) 521
Dubovskaya, I.Ya., see Baryshevsky, V.G. A304 (1991) 421
Duchêne, G., see Moszyński, M. A308 (1991) 557
Dudarev, A.V., see Barkov, A.V. A308 (1991) 70
Dudarev, A.V., see Artemiev, A.N. A308 (1991) 77
Dudek, J.C., see Septier, A. A304 (1991) 392
Dudelzak, B., see Fréjus Collaboration A302 (1991) 406
Duerdoth, I.P., see Allison, J. A310 (1991) 527
Dufey, J.P., see WA82 Collaboration A309 (1991) 401
Duffy, A.G., see McKee, B.T.A. A310 (1991) 255
Dugad, S.R., see Adarkar, H. A308 (1991) 574
Duggan, J.L., see Weathers, D.L. A303 (1991) 69
Dujka, B., see Kockelmann, W. A305 (1991) 435
Dulinski, W., see Hietanen, I. A305 (1991) 173
Dulinski, W., see Hubbeling, L. A310 (1991) 197
Dulinski, W., see Hietanen, I. A310 (1991) 677
Dulny, B., see Andersen, E. A301 (1991) 69
Dumps, L., see Bacci, C. A301 (1991) 445
Dumps, L., see UA1 Collaboration A305 (1991) 331
Dunlea, J., see Bromberg, C. A307 (1991) 292
Dunn, R.A., see Badgett, W. A307 (1991) 231
Durante, E., see Ricco, G. A307 (1991) 374

Durkin, L.S., see Bylsma, B.G. A305 (1991) 354
D'Uscio, E., see Bressi, G. A310 (1991) 613
Dytlewski, N., Dead-time corrections for multiplicity counters (*Letter to the Editor*) A305 (1991) 492
Dzhemukhadze, S., see Ableev, V.G. A306 (1991) 73

Early, J., see Feldman, D.W. A304 (1991) 224
Easom, B., see Adams, T. A306 (1991) 128
Edgar, M.L., see Lapington, J.S. A310 (1991) 299
Edighoffer, J., see Kim, K.-J. A304 (1991) 233
Edwards, M., G. Hall and S. Sotthibandhu, Neutron radiation damage studies of silicon detectors A310 (1991) 283
Efthymiopoulos, I., see Atwood, W.B. A306 (1991) 446
Egikian, D.L., R.A. Mikaelian and G.G. Hovakimian, Exception of the effect of the harmonic component in monochromatic synchrotron radiation using a special ionization chamber A308 (1991) 397
Egorov, V.V., see Barkov, A.V. A308 (1991) 70
Ehrfeld, W. and D. Münchmeyer, Three-dimensional microfabrication using synchrotron radiation A303 (1991) 523
Eide, Å., see Francke, T. A307 (1991) 47
Eidmann, K., see Alexandrov, Yu.M. A308 (1991) 343
Eisert, F., see Bitter, T. A309 (1991) 521
Ejiri, H., K. Higa, T. Kamada, H. Kobiki, K. Matsuoka, K. Okada, H. Sano, T. Shibata, T. Shima, N. Tanabe, J. Tanaka, T. Taniguchi, T. Watanabe and N. Yamamoto, The high sensitivity beta–gamma spectrometer ELEGANTS V for rare β(e) and ββ(ee) decays A302 (1991) 304
Ejiri, H., K. Matsuoka and E. Choi, Low-background measurement of fast neutrons by means of Ge detectors A302 (1991) 482
Ekström, P., see Bergström, M. A301 (1991) 132
El-Muzeini, P., see Bitter, T. A309 (1991) 521
Elango, M., see Kikas, A. A308 (1991) 211
Elango, M., see Ausmees, A. A308 (1991) 219
Elevant, T., D. Aronsson, P. van Belle, G. Grosshoeg, M. Hoek, M. Olsson and G. Sadler, The JET neutron time-of-flight spectrometer A306 (1991) 331
Elfstrom, S., see Wei, J.X. A306 (1991) 557
Elgin, J.N., A quantum optics approach to the FEL A304 (1991) 406
Elgin, J.N. and C. Penman, Mechanisms for the production of harmonics in free electron lasers A304 (1991) 444
Elias, L., see Boscolo, I. A309 (1991) 585
Elias, L.R., I. Kimel, D. Larson, D. Anderson, M. Tecimer and Zhong Zhefu, A compact cw free electron laser A304 (1991) 219
Elias, L.R., see Tsunawaki, Y. A304 (1991) 753
Elleaume, P. and J. Chavanne, A new powerful flexible linear/helical undulator for soft X-rays A304 (1991) 719
Elleaume, P., see Colson, W.B. A304 (1991) 822
Elleaume, P., J. Chavanne, X. Maréchal, J. Goulon, L. Braicovich, C. Malgrange, H. Emerich, G. Marot and J. Susini, An ESRF beamline dedicated to polarization-sensitive XAS at low excitation energies A308 (1991) 382
Elliott, C.J., B. McVey and M. Schmitt, Small signal gain based on analytic models of thin intense electron beams A304 (1991) 545
Elliott, C.J., see Goldstein, J.C. A304 (1991) 622
Elliott, C.J., B.D. McVey and D.C. Quimby, Field error lottery A304 (1991) 725
Ellison, J., A. Kernan and D. Smith, Simulation of b-jet identification in a non-magnetic detector A302 (1991) 227
Emam, O., see Herring, J.R.H. A310 (1991) 341
Emel'chenko, G.A., see Stankevich, V.G. A308 (1991) 193
Emelyanenkov, D.G., see Drobyazko, I.B. A308 (1991) 243
Emerich, H., see Elleaume, P. A308 (1991) 382
Endo, S., see Sugitate, T. A307 (1991) 265
Enge, H.A., see Morgan, G.L. A308 (1991) 544
Engelage, J.M., see Doke, T. A302 (1991) 290
Engelen, J., see ZEUS Calorimeter Group A309 (1991) 101
Engelmann, U., M. Glugla, R.-D. Penzhorn and H.J. Ache, Application of an omegatron type high resolution mass spectrometer for the analysis of mixtures of hydrogen and helium isotopes A302 (1991) 345
Engels Jr., E., see Bromberg, C. A307 (1991) 292
Englert, P.A.J., see Drake, D.M. A309 (1991) 575
English, R.L., see Acton, P. A305 (1991) 504
Engström, P., S. Larsson, A. Rindby, A. Buttkewitz, S. Garbe, G. Gaul, A. Knöchel and F. Lechtenberg, A submicron synchrotron X-ray beam generated by capillary optics A302 (1991) 547
Enorini, M., see Bianco, S. A305 (1991) 48
Epp, V.Ya. and G.K. Razina, Radiation in a wiggler with sinusoidal magnetic field A307 (1991) 562

Epp, V.Ya., see Medvedev, A.F. A308 (1991) 124
Epp, V.Ya., see Bordovitsyn, V.A. A308 (1991) 128
Epp, V.Ya., see Nikitin, M.M. A308 (1991) 131
Equer, B., see Aleksan, R. A305 (1991) 512
Erdmann, M., see Dreyer, T. A309 (1991) 184
Ereditato, A., see Acosta, D. A302 (1991) 36
Ereditato, A., see Acosta, D. A305 (1991) 55
Ereditato, A., see Acosta, D. A308 (1991) 481
Ereditato, A., see Acosta, D. A309 (1991) 143
Erg, G.I., V.N. Korchuganov, G.N. Kulipanov, E.B. Levichev, E.M. Trakhtenberg, V.A. Ushakov and A.G. Valentinov, Multipole wiggler and undulator for the TNK SR source A308 (1991) 57
Eriksson, M., see Werin, S. A304 (1991) 81
Eriksson, M., Present development at MAX-lab A308 (1991) 28
Eritsyan, H.N., see Harutunyan, V.V. A308 (1991) 197
Erme, E. and R. Koger, Unified basic modules of UHV monochromators for synchrotron radiation A308 (1991) 336
Ermer, M., see Brendle, M. A302 (1991) 342
Ermilova, V.K., see Grishin, V.M. A307 (1991) 273
Ermilova, V.K., see Grishin, V.M. A309 (1991) 476
Ermolenko, A.V., see Alexandrov, A.A. A303 (1991) 323
Ernst, G.J., see Botman, J.I.M. A304 (1991) 192
Ernwein, J., see Fréjus Collaboration A302 (1991) 406
Ernwein, R. and M.A. Saettel, Preparation of a multi-anode electrode for an ionization chamber A303 (1991) 192
Errede, D., M. Sheaff, H. Fenker, L. Lueking, P. Mantsch and R. Jedicke, Use of a transition radiation detector in a beam of high energy hadrons A309 (1991) 386
Erriquez, O., see Bellotti, R. A305 (1991) 192
Ershov, V.P., see Ableev, V.G. A306 (1991) 73
Eschstruth, P., see Fréjus Collaboration A302 (1991) 406
Escue, R.B., see Weathers, D.L. A303 (1991) 69
Espinoza, C., see Armijo, V. A303 (1991) 298
Essig, W., see Wirth, H.L. A303 (1991) 106
Estler, R.C., see Muenchausen, R.E. A303 (1991) 204
Esumi, S., see Sugitate, T. A307 (1991) 265
Etienne, L., see Bruyndonckx, P. A310 (1991) 107
Etienne, L., see Buytaert, J. A310 (1991) 596
Etievant, C., see Bassaler, J.M. A304 (1991) 177
Evangelisti, F., see Bacci, C. A306 (1991) 182
Evans, H., see Bacci, C. A301 (1991) 445
Evans, H., see UA1 Collaboration A305 (1991) 331
Evensen, L., see Roe, S. A310 (1991) 192
Evensen, L., see Hubbeling, L. A310 (1991) 197
Evensen, L., see Avset, B.S. A310 (1991) 203
Eyharts, P., see Bardy, J. A304 (1991) 311
Eyharts, P., see Launspach, J. A304 (1991) 368
Eykens, R., see Tagziria, H. A303 (1991) 123
Eykens, R., see Pauwels, J. A303 (1991) 133
Eykens, R., A. Goetz, A. Lamberty, J. Van Gestel, J. Pauwels, C. Wagemans, S. Druyts and P. D'Hondt, Preparation and characterization of ^{35}Cl and ^{36}Cl samples for (n, p) cross section measurements A303 (1991) 152
Eyl, P., see Bardy, J. A304 (1991) 311
Eyl, P., see Launspach, J. A304 (1991) 368

Faatz, B., see van Amersfoort, P.W. A304 (1991) 163
Faatz, B., see Best, R.W.B. A304 (1991) 532
Faatz, B., R.W.B. Best and P.W. van Amersfoort, Dynamic behaviour of the EM field in free electron lasers . A304 (1991) 551
Fabbri, F.L., see Bianco, S. A301 (1991) 279
Fabbri, F.L., see Bianco, S. A305 (1991) 48
Fabbricatore, P., R. Musenich and R. Parodi, Inductive method for critical current measurement of superconducting cables for high energy physics applications A302 (1991) 27
Faber, G., see Van der Graaf, H. A307 (1991) 220
Fabjan, C.W., see Shank, J.T. A309 (1991) 377
Fabjan, C.W., see RD3 Collaboration A309 (1991) 438
Fabre, J.-P., see WA84 Collaboration A310 (1991) 485

Fabris, D., see Chambon, B. . . . A307 (1991) 333
Faddegon, B.A., L. Van der Zwan, D.W.O. Rogers and C.K. Ross, Precision response estimation, energy calibration, and unfolding of spectra measured with a large NaI detector . . . A301 (1991) 138
Faillon, G., see Dei-Cas, R. . . . A304 (1991) 212
Faissler, W., see Bromberg, C. . . . A307 (1991) 292
Falciano, S., see Angelov, T. . . . A306 (1991) 536
Fallou, J.L., see Bourgeois, P. . . . A301 (1991) 150
Fallou, J.L., see Couprie, M.E. . . . A304 (1991) 710
Fanchenko, S.D., see Artemiev, A.N. . . . A308 (1991) 66
Fanet, H. and J.C. Lugol, Measurement of charge with an active integrator in the presence of noise and pileup effects. A choice of parameters in the charge division method . . . A301 (1991) 295
Fang Jie, see Zheng Zheng . . . A301 (1991) 337
Fanourakis, G., see Bromberg, C. . . . A307 (1991) 292
Farooq, A., see Simon-Gillo, J. . . . A309 (1991) 427
Farrell, T.J., see Ndlovu, A.M. . . . A305 (1991) 484
Faruqi, A.R., Applications in biology and condensed matter physics . . . A310 (1991) 14
Faruqi, A.R., H.E. Huxley, R.M. Simmons and C.C. Bond, Time-resolved X-ray measurements on muscle using a fast multiwire linear detector . . . A310 (1991) 359
Fast, J.E., see Bartoszek, L. . . . A301 (1991) 47
Faszer, W., see Openshaw, R. . . . A307 (1991) 298
Fauber, R.E., see Mooney, T.M. . . . A307 (1991) 185
Faucett, J.A., see Garnett, R. . . . A309 (1991) 508
Faujour, R., see Dei-Cas, R. . . . A304 (1991) 215
Faure, P., see Atwood, W.B. . . . A306 (1991) 446
Favaron, P., see Pengo, R. . . . A303 (1991) 146
Favuzzi, C., see Bellotti, R. . . . A305 (1991) 192
Fawcett, H., see ZEUS Calorimeter Group . . . A309 (1991) 101
Fawley, W.M., see Pierini, P. . . . A304 (1991) 644
Fawley, W.M., see Berz, M. . . . A307 (1991) 1
Fayer, M.D., Picosecond FEL experiments on condensed matter systems . . . A304 (1991) 797
Fedchenko, V.I., see Chesnokov, V.V. . . . A308 (1991) 333
Federico, C., see Brunetti, M.T. . . . A302 (1991) 362
Fedin, D.A., see Alexandrov, Yu.M. . . . A308 (1991) 340
Fedin, D.A., see Alexandrov, Yu.M. . . . A308 (1991) 343
Fedorchenko, M.V., see Kruglyakov, E.P. . . . A308 (1991) 325
Fedorchuk, R.V., see Alexandrov, Yu.M. . . . A308 (1991) 340
Fedorchuk, R.V., see Alexandrov, Yu.M. . . . A308 (1991) 343
Fedorov, A.L., see Kruglyakov, E.P. . . . A308 (1991) 325
Fedorov, V.K., see Drobyazko, I.B. . . . A308 (1991) 243
Fedorowicz, R., see Moreh, R. . . . A309 (1991) 503
Fedoseyev, V.N., see Alkhazov, G.D. . . . A306 (1991) 400
Fedotov, M.G., E.A. Kuper and V.E. Panchenko, Peculiarities of CCD and photodiode arrays application to X-ray image detection . . . A308 (1991) 367
Fedotov, M.G., E.A. Kuper, V.E. Panchenko and S.A. Tiunov, Spatial correction of solid-state semiconductor imaging detectors in the X-ray region . . . A308 (1991) 423
Fedotov, M.G., E.A. Kuper, V.E. Panchenko and S.A. Tiunov, Spatial distortions in solid-state semiconductor X-ray imaging detectors . . . A308 (1991) 427
Fedotov, M.G., E.A. Kuper and V.E. Panchenko, Experimental observation of intracell avalanche amplification in charge coupled devices . . . A308 (1991) 430
Fedotov, Yu.S., see Asseev, A.A. . . . A309 (1991) 1
Fedyakin, N.N., R.N. Krasnokutsky, L.L. Kurchaninov, R.S. Shuvalov and V.V. Tikhonov, A charge division method for the determination of the γ-conversion point in a liquid krypton calorimeter . . . A301 (1991) 121
Fedyakin, N.N., see Krasnokutsky, R.N. . . . A309 (1991) 339
Fegan, D.J., see Punch, M. . . . A302 (1991) 508
Feldbach, E.Kh., see Stankevich, V.G. . . . A308 (1991) 193
Feldman, D.M., see Carlsten, B.E. . . . A304 (1991) 587
Feldman, D.W., S.C. Bender, B.E. Carlsten, J. Early, R.B. Feldman, W.J.D. Johnson, A.H. Lumpkin, P.G. O'Shea, W.E. Stein, R.L. Sheffield and K. McKenna, Performance of the Los Alamos HIBAF accelerator at 17 MeV . . . A304 (1991) 224
Feldman, D.W., see Lumpkin, A.H. . . . A304 (1991) 379
Feldman, G.G., see Dolbnya, I.P. . . . A308 (1991) 435

Feldman, R.B., see Feldman, D.W. A304 (1991) 224
Feldman, R.B., see Lumpkin, A.H. A304 (1991) 374
Feldman, R.B., see Lumpkin, A.H. A304 (1991) 379
Feldman, W.C., G.F. Auchampaugh and R.C. Byrd, A novel fast-neutron detector for space applications A306 (1991) 350
Feliciello, A., see Bonazzola, G.C. A306 (1991) 305
Feller, W.B., Conductivity cooled microchannel plates A310 (1991) 249
Feller, W.B., see McKee, B.T.A. A310 (1991) 255
Feng, Z., see Atwood, W.B. A306 (1991) 446
Fenker, H., see Akbari, H. A302 (1991) 415
Fenker, H., see Errede, D. A309 (1991) 386
Ferbel, T., see Pun, C. A302 (1991) 285
Ferbel, T., see Bromberg, C. A307 (1991) 292
Ferencei, J., see Antoš, J. A302 (1991) 277
Fergeau, R., see Coc, A. A305 (1991) 143
Ferguson, S.M., see Kroupa, M.A. A310 (1991) 649
Fernandez, C., see Andersen, E. A301 (1991) 69
Ferrando, A., see Bacci, C. A301 (1991) 445
Ferrando, A., see UA1 Collaboration A305 (1991) 331
Ferrari, R., see Acosta, D. A302 (1991) 36
Ferrari, R., see Acosta, D. A305 (1991) 55
Ferrari, R., see Acosta, D. A308 (1991) 481
Ferrari, R., see Acosta, D. A309 (1991) 143
Ferrario, M., see Pagani, C. A304 (1991) 251
Ferrario, M., see Serafini, L. A304 (1991) 654
Ferrer, J.L., see Iracane, D. A304 (1991) 626
Ferrer, J.L., see Iracane, D. A304 (1991) 629
Ferroni, F., see Allegretti, F. A302 (1991) 455
Feuerstack, M., J. Heintze, P. Lennert, B. Müller, S. Polenz, B. Schmidt, J. Spitzer, B. Stadler, S. Gamp, W. Hofmann, T. Kihm, J. Knöppler, M. Panter, B. Povh and C. Wiedner, Cosmic ray tracking: a new approach to high-energy γ-astronomy A310 (1991) 287
Fialovszki, B., see Alekseev, G.D. A305 (1991) 344
Fidecaro, F., see Atwood, W.B. A306 (1991) 446
Field, G.M., J. Bridgwater, T.D. Beynon and J.S.M. Botterill, Mechanics of powder mixing using positron emission tomography A310 (1991) 435
Field, J.H., see Béné, P. A306 (1991) 150
Fielding, H.W., see Cameron, J.M. A305 (1991) 257
Fimushkin, V.V., see Ableev, V.G. A306 (1991) 73
Finkbeiner, F., A. Hahn, W. Heeringa, P. Jany, H.O. Klages and T. Strobelt, Superconducting aluminium tunnel junctions with indium absorbers for low-energy X-ray spectroscopy A306 (1991) 215
Finocchiaro, P., A computer system for on-line analysis and monitoring of a nuclear multidetector A305 (1991) 162
Fiore, E.M., see Paticchio, V. A305 (1991) 150
Fiore, L., see Paticchio, V. A305 (1991) 150
Fiori, F., see Alvisi, C. A305 (1991) 30
Fiorini, P., see Bacci, C. A306 (1991) 182
Fisch, E.E., J.E. Walsh, A.K. Henning and M.F. Kimmitt, The semiconductor Cherenkov laser A304 (1991) 679
Fischer, P., see Schefer, J. A310 (1991) 416
Fischle, H., J. Heintze and B. Schmidt, Experimental determination of ionization cluster size distributions in counting gases A301 (1991) 202
Fisher, P., see Akbari, H. A302 (1991) 415
Fisk, H.E., see King, B.J. A302 (1991) 254
Fitch, J., see Bylsma, B.G. A305 (1991) 354
Fitzgerald, R., see Akbari, H. A302 (1991) 415
Flaminio, V., see WA84 Collaboration A310 (1991) 485
Flegel, W., see Bähr, J. A306 (1991) 169
Flesher, G.I., see Bagrov, V.G. A308 (1991) 89
Flores, I., see Doke, T. A302 (1991) 290
Focardi, E., see Batignani, G. A310 (1991) 160
Fodor, Z., see Keszthelyi-Lándori, S. A303 (1991) 374
Fodor, Z., see Baksay, L. A310 (1991) 607
Földvári, I., see Keszthelyi-Lándori, S. A303 (1991) 374
Folegati, P., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320

Folger, H., H. Geißel, W. Hartmann, J. Klemm, G. Münzenberg, D. Schardt, K.-H. Schmidt and W. Thalmeier, Targets and degraders for relativistic heavy ions at GSI A303 (1991) 24
Foltyn, S.R., see Muenchausen, R.E. A303 (1991) 204
Fomenko, G.P. and A.S. Shlapakovskii, High-order mode domination in the instability spectrum of relativistic electron beam in a dielectric-filled waveguide A304 (1991) 447
Fonte, P., V. Peskov and F. Sauli, Feedback and breakdown in parallel-plate chambers A305 (1991) 91
Fonte, P., see Charpak, G. A307 (1991) 63
Fonte, P., V. Peskov and F. Sauli, VUV emission and breakdown in parallel-plate chambers A310 (1991) 140
Fonte, R., A. Insolia, G. Lanzanó, A. Pagano, G.V. Russo, G. Palamá, C.W. de Jager and H. de Vries, Response function of a BaF_2 detector to electrons A307 (1991) 80
Forconi, G., see Béné, P. A306 (1991) 150
Ford, T.D., see Romero, J.L. A301 (1991) 241
Fore, N.S., see Lewis, R. A310 (1991) 70
Forest, E., see Antillón, A. A305 (1991) 247
Forino, A., see WA82 Collaboration A309 (1991) 401
Fornaca, S., see Lazar, N.H. A304 (1991) 243
Forster, J.S., see Galindo-Uribarri, A. A301 (1991) 457
Forte, A., see Alvisi, C. A305 (1991) 30
Forti, F., see Batignani, G. A310 (1991) 160
Fossati, F., see Audit, G. A301 (1991) 473
Foucaud, D., see Audit, G. A301 (1991) 473
Foudas, C., see King, B.J. A302 (1991) 254
Fourdin, P., see Dei-Cas, R. A304 (1991) 215
Fourdin, P., see Balleyguier, P. A304 (1991) 308
Fournier, D., see Cizeron, R. A307 (1991) 286
Fournier, D., see RD3 Collaboration A309 (1991) 438
Foutch, L., see Shapira, D. A301 (1991) 76
Fowler, M.M., J.C. Gursky and J.B. Wilhelmy, Preparation of actinide targets and sources using nonaqueous electrodeposition A303 (1991) 99
Fowles, P., see Hawkesworth, M.R. A310 (1991) 423
Fox, D., see Simon-Gillo, J. A309 (1991) 427
Frabetti, P.L., see Bianco, S. A305 (1991) 48
Francescangeli, O., see Allegretti, F. A302 (1991) 455
Francke, T., T. Lindblad, Å. Eide, F. Piuz, D. Williams, P. Martinengo, R. Ribeiro and M. Suffert, Particle identification by Cherenkov ring imaging using a neural network approach A307 (1991) 47
Francke, T., F. Piuz, D. Williams, P. Martinengo, R. Ribeiro and M. Suffert, A fast and compact solid radiator RICH counter A310 (1991) 146
Franklin, G., see Andersen, E. A301 (1991) 69
Franzini, P., see Schamberger, R.D. A309 (1991) 450
Frasconi, F., see Alvisi, C. A305 (1991) 30
Fraser, G.W., M.T. Pain, J.E. Lees and J.F. Pearson, The operation of microchannel plates at high count rates A306 (1991) 247
Fraser, G.W., J.E. Lees, J.F. Pearson and M.A. Barstow, The operation of microchannel plates with square pores A310 (1991) 292
Fraternali, M., see Acosta, D. A302 (1991) 36
Fratnik, F., see Battaoitto, P. A301 (1991) 265
Frautschi, M., D.R. Johnson, H. Kagan, R. Kass, C.G. Trahern, K. Maeshima, R.L. Malchow, K. Sparks and M.C.S. Williams, The AMY inner tracking chamber A307 (1991) 52
Frawley, A.D., L.H. Wright, R.C. Kline, E.P. Gavathas and L.C. Dennis, A large solid angle, high stopping power Bragg curve spectrometer for coincidence measurements A306 (1991) 512
Freedman, S.J., see Kroupa, M.A. A310 (1991) 649
Fréhaut, J., see Dei-Cas, R. A304 (1991) 215
Fréhaut, J., Space-charge effects in magnetic phase compressors A304 (1991) 342
Freiesleben, H., see Kiesewetter, J. A309 (1991) 196
Fréjus Collaboration, Ch. Berger, M. Fröhlich, H. Mönch, R. Nisius, F. Raupach, P. Schleper, Y. Benadjal, D. Blum, C. Bourdarios, B. Dudelzak, P. Eschstruth, S. Jullian, D. Lalanne, F. Laplanche, C. Longuemare, C. Paulot, O. Pedereau, Ph. Roy, G. Szklarz, L. Behr, B. Degrange, U. Nguyen-Khac, S. Tisserant, C. Arpesella, P. Bareyre, R. Barloutaud, A. Borg, G. Chardin, J. Ernwein, J.F. Glicenstein, W. Kolton, L. Mosca, L. Moscoso, J. Becker, K.H. Becker, H.J. Daum, B. Jacobi, B. Kuznik, H. Meyer, M. Schubnell and Y. Wei, Experimental determination of ν background expected in the Fréjus nucleon decay detector A302 (1991) 406
French, B.R., see WA82 Collaboration A309 (1991) 401

Frenkel, A., see WA84 Collaboration A310 (1991) 485
Freund, A., see Krisch, M. A305 (1991) 208
Freund, A., see Joksch, S. A306 (1991) 386
Freund, A., see Basov, Yu.A. A308 (1991) 363
Freund, A., see Krisch, M. A308 (1991) 378
Freund, H.P., see Pershing, D.E. A304 (1991) 127
Freund, H.P., Nonlinear theory of slow-wave ubitrons/free electron lasers A304 (1991) 555
Freund, H.P. and A.K. Ganguly, High efficiency operation of Cherenkov masers A304 (1991) 612
Freund, P., see Czapek, G. A306 (1991) 572
Friedrich, L. and E. Huttel, Diameters of a 30 K polarized atomic beam A309 (1991) 11
Friedrichs, H., see Frommhold, Th. A310 (1991) 657
Friend, B., see Bähr, J. A306 (1991) 169
Frisch, J., see Cord, G.A. A304 (1991) 601
Frisch, J.C., R.L. Swent and T.I. Smith, Observation of anomalous power loss in a FEL A304 (1991) 21
Frischke, D., see Stephan, K.-H. A303 (1991) 196
Frisken, W., see ZEUS Calorimeter Group A309 (1991) 101
Fröhlich, M., see Fréjus Collaboration A302 (1991) 406
Frolov, A.R., Yu.N. pestov and V.V. Primachek, Position resolution of the spark counter with a localized discharge A307 (1991) 497
Frommhold, Th., W. Arnold, H. Friedrichs, R. Göbel, R.D. Heil, U. Kneissl, U. Seemann, F. Steiper and C. Kozhuharov, Response functions of Si detectors to monoenergetic electrons and positrons in the energy range 0.8–3.5 MeV A310 (1991) 657
Frontera, F., see Poulsen, J.M. A310 (1991) 398
Frühwirth, R., see Andersen, E. A301 (1991) 69
Fuess, T., see UA1 Collaboration A305 (1991) 331
Fuga, P., Study of the excitation function of ^{56}Fe(n, p)^{56}Mn threshold reaction A309 (1991) 500
Fujieda, I., see Drewery, J.S. A310 (1991) 165
Fujii, R., see Saito, T. A301 (1991) 568
Fujioka, M., H. Sunaoshi, H. Wollnik and T. Nomura, A high-resolution isotope separator using symmetrically-split magnets (*Letter to the Editor*) A309 (1991) 600
Fujita, K., M. Nakayama, T. Okusawa, A. Shimonaka, T. Takahashi, S. Tanaka, Y. Teramoto, T. Tsui, T. Yoshida, T. Yutori and M. Uchimura, Test of new light-and-strong material for anode wires of wire chambers A308 (1991) 514
Fujiwara, M., see Tanaka, M. A302 (1991) 460
Fukada, Y., see Saito, T. A301 (1991) 568
Fukumura, K., R. Katano, T. Kobayashi, A. Nakanishi and Y. Isozumi, Helium-filled proportional counter operated at low temperatures higher than 13 K A301 (1991) 482
Fukumura, K., T. Makita, T. Kobayashi and Y. Isozumi, Stability in operation of a gas-filled proportional counter at liquid nitrogen temperature A301 (1991) 485
Fukushima, M., see Angelov, T. A306 (1991) 536
Fukushima, Y., see Haba, J. A303 (1991) 346
Fukutani, H., see Koide, T. A308 (1991) 635
Fulgione, W., see Antonioli, P. A309 (1991) 569
Fulop, V., see Clifton, I.J. A303 (1991) 476
Fumagalli, G., see Acosta, D. A302 (1991) 36
Fumagalli, G., see Acosta, D. A305 (1991) 55
Fumagalli, G., see Acosta, D. A308 (1991) 481
Fumagalli, G., see Acosta, D. A309 (1991) 143
Furetta, C., see Borchi, E. A301 (1991) 215
Furetta, C., see Bacci, C. A306 (1991) 182
Furić, M., see Backenstoss, G. A310 (1991) 518
Fürtjes, A., see ZEUS Calorimeter Group A309 (1991) 101
Fuschini, E., see Bruno, M. A305 (1991) 410
Fusco, P., see Bellotti, R. A305 (1991) 192
Fyodorov, V.K., see Tagabilev, G.Kh. A308 (1991) 251

Gabathuler, E., see Grässler, H. A310 (1991) 535
Gabriel, A., see Barbosa, A.F. A302 (1991) 489
Gabriel, T.A., see Job, P.K. A309 (1991) 60
Gabutti, A., K.E. Gray, G.M. Pugh and R.C. Tiberio, Improved beta detection efficiency with granular aluminum superconducting strips A306 (1991) 220

Gacek, D., see Derrick, M. . . . A309 (1991) 77
Gäggeler, H.W., D.T. Jost, U. Baltensperger, A. Weber, A. Kovacs, D. Vermeulen and A. Türler, OLGA II, an on-line gas chemistry apparatus for applications in heavy element research . . . A309 (1991) 201
Gaillard, E., see Blumenfeld, H. . . . A309 (1991) 169
Gaillard, J.M., see Charon, Y. . . . A310 (1991) 379
Galaktionov, Yu., see Adriani, O. . . . A302 (1991) 53
Galayda, J., see Tanabe, T. . . . A304 (1991) 77
Galeotti, P., see Antonioli, P. . . . A309 (1991) 569
Galik, R.S., see Bebek, C. . . . A302 (1991) 261
Galindo-Uribarri, A., T.E. Drake, G.C. Ball, N.C. Bray, J.S. Forster, E. Hagberg, D. Horn and C. Pruneau, A thin plastic scintillator time-zero detector and flux monitor . . . A301 (1991) 457
Gallardo, J.C. and R.B. Palmer, Emittance correction of photocathode gun . . . A304 (1991) 345
Gallerano, G., see Barbagelata, L. . . . A304 (1991) 703
Gallerano, G.P., see Ciocci, F. . . . A304 (1991) 17
Gallerano, G.P., see Castellano, M. . . . A304 (1991) 204
Gallerano, G.P., see Bartolini, R. . . . A304 (1991) 417
Gallian, S., see Bonazzola, G.C. . . . A306 (1991) 305
Gallinaro, G., see Dambra, R. . . . A302 (1991) 83
Gallo, A., see Bartalucci, S. . . . A309 (1991) 355
Gallo, E., see Adriani, O. . . . A302 (1991) 53
Gamba, D., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Gamble, M., see Hylen, J. . . . A310 (1991) 497
Gamp, S., see Feuerstack, M. . . . A310 (1991) 287
Ganguli, S.N., see Adriani, O. . . . A302 (1991) 53
Ganguly, A.K., see Freund, H.P. . . . A304 (1991) 612
Gao, C., see Yuan, X.Y. . . . A308 (1991) 372
Gao, H., see Pinfold, J.L. . . . A302 (1991) 434
Gao, J., Theoretical investigation of optimizing the microwave electron gun . . . A304 (1991) 348
Gao, J., Nonlinear repairing in phase space. Emittance recovering techniques . . . A304 (1991) 353
Gao, J. and J.L. Xie, Rf gun development at IHEP for BFELP . . . A304 (1991) 357
Gao, J., Analytical formula for the coupling coefficient β of a cavity–waveguide coupling system . . . A309 (1991) 5
Garabatos, C., see Andersen, E. . . . A301 (1991) 69
Garbe, S., see Engström, P. . . . A302 (1991) 547
Garcia-Belmonte, G., see Olmos, P. . . . A302 (1991) 91
Garçon, M., see Cameron, J.M. . . . A305 (1991) 257
Gardelle, J., see Bottollier-Curtet, H. . . . A304 (1991) 197
Gardelle, J., see Launspach, J. . . . A304 (1991) 368
Garelick, D., see Bromberg, C. . . . A307 (1991) 292
Garganne, P., see Bourgeois, P. . . . A301 (1991) 150
Garganne, P., see Couprie, M.E. . . . A304 (1991) 710
Gargari, S., see Avasthi, D.K. . . . A303 (1991) 43
Garnett, R., D. Grosnick, K. Johnson, D. Lopiano, Y. Ohashi, A. Rask, T. Shima, H. Spinka, R. Stanek, D. Underwood, A. Yokosawa, M. Beddo, G. Burleson, J.A. Faucett, G. Kyle, M. Devereux, G. Glass, S. Nath, J.J. Jarmer, S. Penttilä, R. Jeppesen and G. Tripard, A neutron hodoscope for medium energy np scattering experiments . . . A309 (1991) 508
Garzon, J.A., see Andersen, E. . . . A301 (1991) 69
Gasparini, F., see Bettini, A. . . . A305 (1991) 177
Gassel, H., see Kiesewetter, J. . . . A309 (1991) 196
Gatti, E., see Vacchi, A. . . . A306 (1991) 187
Gatti, F., see Dambra, R. . . . A302 (1991) 83
Gau, S.S., see Masuda, K. . . . A309 (1991) 489
Gaudaen, J., see Bouclier, R. . . . A310 (1991) 74
Gaudreau, M.P.J., see Masuda, K. . . . A309 (1991) 489
Gaul, G., see Engström, P. . . . A302 (1991) 547
Gauzzi, P., see Bini, C. . . . A306 (1991) 467
Gavathas, E.P., see Frawley, A.D. . . . A306 (1991) 512
Gavrilenko, I., see Shank, J.T. . . . A309 (1991) 377
Gavrilov, G.N., see Dolbnya, I.P. . . . A308 (1991) 416
Gavrilov, N.G., see Couprie, M.E. . . . A304 (1991) 47
Gavrilov, N.G., G.N. Kulipanov, V.N. Litvinenko, I.V. Pinayev, V.M. Popik, I.G. Silvestrov, A.N. Skrinsky, A.S. Sokolov, N.A. Vinokurov and P.D. Vobly, Observation of mutual coherence of spontaneous radiation from two undulators separated by an achromatic bend . . . A304 (1991) 63

Gavrilov, N.G., E.I. Gorniker, G.N. Kulipanov, I.V. Kuptsov, G.Ya. Kurkin, A.D. Oreshkov, V.M. Petrov, I.V. Pinayev, I.K. Sedlyarov, A.N. Skrinsky, A.S. Sokolov, V.G. Veshcherevich, N.A. Vinokurov and P.D. Vobly, Project of a race-track microtron-recuperator for a free electron laser A304 (1991) 228
Gavrilov, N.G., see Couprie, M.-E. A308 (1991) 39
Gavrilov, N.G., see Anashin, V.V. A308 (1991) 45
Gavrilov, N.G., G.N. Kulipanov, V.N. Litvinenko, I.V. Pinayev, V.M. Popik, I.G. Silvestrov, A.S. Sokolov, N.A. Vinokurov and P.D. Vobly, Observation of the mutual coherence of spontaneous radiation from two undulators separated by an achromatic bend A308 (1991) 109
Gavron, A., see Simon-Gillo, J. A309 (1991) 427
Gebauer, H.-J., see Czapek, G. A306 (1991) 572
Gebhard, M.W., see Nutter, S. A310 (1991) 665
Gee, M., see Bartoszek, L. A301 (1991) 47
Geer, S., R.A. Holroyd and F. Ptohos, Search for new room temperature liquids for use in ionization chambers A301 (1991) 61
Geesmann, H., G.F. Hanne, A.D. Stauffer and J.A. Stauffer, The dangers of digitization. An analysis of digitized position sensitive detectors A307 (1991) 413
Gehrels, N., see Pascarelle, S.M. A302 (1991) 388
Gehrels, N., see Owens, A. A307 (1991) 420
Gehrels, N., see Owens, A. A310 (1991) 681
Geißel, H., see Folger, H. A303 (1991) 24
Geist, W.M., see Andersen, E. A301 (1991) 69
Geitz, G., see Hartmann, J. A305 (1991) 366
Gelsema, S.J., see Schooneveld, E.M. A305 (1991) 581
Gelsema, S.J., see Schooneveld, E.M. A310 (1991) 385
Geltenbort, P., see Oed, A. A310 (1991) 95
Genz, H., see Alrutz-Ziemssen, K. A304 (1991) 159
Genz, H., see Alrutz-Ziemssen, K. A304 (1991) 300
Gerasimov, A.L., D.N. Shatilov and A.A. Zholents, Beam–beam effects with large dispersion function at the interaction point A305 (1991) 25
Gerasimov, S., see WA82 Collaboration A309 (1991) 401
Gerdau, E., see Rüffer, R. A303 (1991) 495
Germain, G., see Bottollier-Curtet, H. A304 (1991) 197
Germain, G., see Launspach, J. A304 (1991) 368
Gervino, G., see Mazzaschi, L. A305 (1991) 391
Gervino, G., M. Anghinolfi, M. Castoldi, P. Corvisiero, G. Ricco, M. Sanzone, M. Taiuti and A. Zucchiatti, Study on BGO resolution with clipped photomultiplier pulses A309 (1991) 497
Gessaroli, R., see WA82 Collaboration A309 (1991) 401
Gevorkyan, V.A., see Harutunyan, V.V. A308 (1991) 197
Gevorkyan, V.A., see Harutunyan, V.V. A308 (1991) 200
Ghalila, H., see Sternbach, E.J. A304 (1991) 691
Ghigo, A., see Castellano, M. A304 (1991) 204
Ghioni, M., see Ripamonti, G. A310 (1991) 184
Ghiorso, A., see Cai Shan-Yu A303 (1991) 141
Giammarchi, M., see Bellini, G. A305 (1991) 395
Giannessi, L., see Dattoli, G. A304 (1991) 541
Giannini, G., see Baldini, A. A305 (1991) 475
Gianotti, F., see RD3 Collaboration A309 (1991) 438
Gianotti, P., see Bonazzola, G.C. A306 (1991) 305
Giardoni, M., see Bianco, S. A305 (1991) 48
Gibin, D., see Cavestro, A. A305 (1991) 488
Gibson, J.L., see Vallerga, J.V. A310 (1991) 317
Gibson, V., see Allport, P.P. A310 (1991) 155
Gierlik, E., see Schotanus, P. A310 (1991) 523
Giglietto, N., see Bellotti, R. A305 (1991) 192
Gildemeister, O., see RD3 Collaboration A309 (1991) 438
Gilkinson, D., see ZEUS Calorimeter Group A309 (1991) 101
Gillespie, D., see Grässler, H. A310 (1991) 535
Gillespie, W.A., see Bakker, R.J. A307 (1991) 543
Gillespie, W.A., see Van der Geer, C.A.J. A307 (1991) 553
Gilliam, D.M., see Tagziria, H. A303 (1991) 123
Gilliam, D.M., see Pauwels, J. A303 (1991) 133

Gillingham, D.R. and W.B. Colson, Electron phase-space trajectories in a linearly polarized free electron laser A304 (1991) 617
Gillman, A.R., see Acton, P. A305 (1991) 504
Gilot, J.F., see Lipnik, P. A305 (1991) 158
Gimm, H., see Krause, K.-H. A310 (1991) 577
Ginsburg, C.M., see Bartoszek, L. A301 (1991) 47
Ginther, G., see Bromberg, C. A307 (1991) 292
Giomataris, Y., see Charpak, G. A306 (1991) 439
Giomataris, Y. and G. Charpak, A hadron-blind detector A310 (1991) 589
Giordano, V., see Bianco, S. A305 (1991) 48
Giorgi, M.A., see Batignani, G. A310 (1991) 160
Giorini, A., see Chambon, B. A307 (1991) 333
Giorni, A., see Désesquelles, P. A307 (1991) 366
Girolami, B., see Babusci, D. A305 (1991) 19
Girolami, B., see Mazzaschi, L. A305 (1991) 391
Giusti, P., see Alvisi, C. A305 (1991) 30
Givernaud, A., see Bacci, C. A301 (1991) 445
Givernaud, A., see UA1 Collaboration A305 (1991) 331
Glagola, B.G., see Scarlassara, F. A309 (1991) 485
Glaser, M., see Rudolf, G. A307 (1991) 325
Glass, G., see Garnett, R. A309 (1991) 508
Glaubman, M., see Akbari, H. A302 (1991) 415
Glaubman, M., see Bromberg, C. A307 (1991) 292
Glebov, V.I., see Denisov, E.I. A308 (1991) 400
Glebov, V.Yu., see Buzulutskov, A.F. A306 (1991) 177
Glicenstein, J.F., see Fréjus Collaboration A302 (1991) 406
Glotov, V.I., see Abramov, A.A. A302 (1991) 529
Gluckstern, R.L., see Yu, L.H. A304 (1991) 516
Glugla, M., see Engelmann, U. A302 (1991) 345
Gobbo, B., see Atwood, W.B. A306 (1991) 446
Gobby, P.L., B.L. Barthell, V.M. Gomez and J.E. Moore, Coating techniques used in target fabrication A303 (1991) 187
Göbel, R., see Frommhold, Th. A310 (1991) 657
Gobrecht, K., see Bitter, T. A309 (1991) 521
Godfrey, J., see Bross, A.D. A307 (1991) 35
Goetz, A., see Eykens, R. A303 (1991) 152
Goggi, G., see Acosta, D. A305 (1991) 55
Goggi, G., see Acosta, D. A308 (1991) 481
Goggi, G., see Acosta, D. A309 (1991) 143
Goggi, V.G., see Acosta, D. A302 (1991) 36
Gohshi, Y., Ultratrace analysis by synchrotron radiation A303 (1991) 544
Goldberg, M.B., see Vartsky, D. A301 (1991) 96
Golden, R.L., C. Grimani, R. Hull, B.L. Kimbell, R. Park, S.A. Stephens, S. Stochaj, G. Basini, E. Bonaviri, F.M. Massimo Brancaccio, M. Ricci, J.F. Ormes, E.S. Seo, R.E. Streitmatter, F. Celletti, P. Spillantini, A. Codino, M. Menichelli, I. Salvatori, F. Bongiorno, V. Bidoli, A. Buccheri, M.P. De Pascale, A. Morselli and P. Picozza, Performance of a balloon-borne magnet spectrometer for cosmic ray studies A306 (1991) 366
Goldfarb, S., see Adriani, O. A302 (1991) 53
Golding, F., see Barbosa, A.F. A302 (1991) 489
Goldstein, J., see Dowell, D.H. A304 (1991) 1
Goldstein, J., see Laucks, M.L. A304 (1991) 25
Goldstein, J.C., R.W. Warren and B.E. Newnam, Design requirements and calculated performance of an XUV FEL oscillator operating on a higher harmonic A304 (1991) 449
Goldstein, J.C., R.L. Tokar, B.D. McVey, C.J. Elliott, D.H. Dowell, M.L. Laucks and A.R. Lowrey, INEX modeling of the Boeing ring optical resonator free electron laser A304 (1991) 622
Goldstein, J.C., see Souza, R. A304 (1991) 687
Goldsticker, M., see Audit, G. A301 (1991) 473
Gollwitzer, K.E., see Bartoszek, L. A301 (1991) 47
Goloviznin, V.V., see Bazylev, V.A. A304 (1991) 432
Golovkin, S.V., A.M. Gorin, A.V. Kulichenko, A.E. Kushnirenko, A.I. Peresypkin, A.I. Pyshchev, V.I. Rykalin and A.A. Zaichenko, Development of tracking detectors based on capillaries with liquid scintillator A305 (1991) 385
Golovkin, S.V., see Denisov, A.G. A310 (1991) 479
Golovnya, S.V., see Khvostova, V.P. A308 (1991) 312
Gomez, A., see Andersen, E. A301 (1991) 69

Gomez, V.M., see Gobby, P.L. A303 (1991) 187
Gong, J.M., see Calabrese, R. A309 (1991) 21
Gong, Z.F., see Adriani, O. A302 (1991) 53
Gonidec, A., see Bacci, C. A301 (1991) 445
Gonidec, A., see UA1 Collaboration A305 (1991) 331
Gonyukh, D.A., see Anevsky, S.I. A308 (1991) 165
Gonzales-Mestres, L., see Czapek, G. A306 (1991) 572
Gonzalez, E., see Adeva, B. A309 (1991) 318
Goodrick, M.J., see Allport, P.P. A310 (1991) 155
Goorens, B., see Buytaert, J. A310 (1991) 596
Gordeev, A., see Adriani, O. A302 (1991) 53
Gordon, H., see Adams, T. A306 (1991) 128
Gordon, M.M. and D.-O Jeon, Improved formulas for calculating cyclotron orbit properties A301 (1991) 182
Gorelov, A.I., see Abramov, A.A. A302 (1991) 529
Gorin, A.M., see Golovkin, S.V. A305 (1991) 385
Gorin, A.M., G.M. Lyapunov, A.M. Medvedkov, V.I. Rykalin and V.V. Rykalin, Characteristics of point focusing image intensifiers and hybrid PMs as elements of multichannel particle detectors A310 (1991) 251
Gorin, A.M., see Denisov, A.G. A310 (1991) 479
Gorini, E., see Antoniazzi, L. A307 (1991) 312
Gorniker, E.I., see Gavrilov, N.G. A304 (1991) 228
Gorniker, E.I., see Anashin, V.V. A308 (1991) 45
Gorodkov, Yu., see Adriani, O. A302 (1991) 53
Goshaw, A.T., see Oh, S.H. A303 (1991) 277
Goshaw, A.T., see Oh, S.H. A309 (1991) 368
Gottschalk, S.C., A.L. Pindroh, D.C. Quimby, K.E. Robinson and J.M. Slater, Enhanced FEL performance from superconducting undulators A304 (1991) 732
Gough, R., see Kim, K.-J. A304 (1991) 233
Goulon, J., see Elleaume, P. A308 (1991) 382
Goulon, J., see Malgrange, C. A308 (1991) 390
Gover, A., see Pinhasi, Y. A304 (1991) 481
Gover, A., see Cohen, M. A304 (1991) 673
Gover, A., see Keselbrener, M. A304 (1991) 782
Gover, A., see Colson, W.B. A304 (1991) 822
Gover, A. and D. Iracane, Report on the theoretical panel A304 (1991) 827
Grabar, S., see Bellini, G. A305 (1991) 395
Grabit, R., see Coc, A. A305 (1991) 143
Grabmayr, P., see Brendle, M. A302 (1991) 342
Gräf, H.-D., see Alrutz-Ziemssen, K. A304 (1991) 159
Gräf, H.-D., see Alrutz-Ziemssen, K. A304 (1991) 300
Graham, G. and H. Yamamoto, A test of large BaF_2 crystals as an electromagnetic calorimeter A307 (1991) 240
Gram, P.A., see Backenstoss, G. A310 (1991) 518
Granatstein, V.L., see Bidwell, S.W. A304 (1991) 187
Grancagnolo, F., see Antoniazzi, L. A307 (1991) 312
Grant, K.J., see Bird, A.J. A310 (1991) 323
Grard, F., see WA82 Collaboration A309 (1991) 401
Grard, F., see Buytaert, J. A310 (1991) 596
Grässler, H., M. Hohlmann, G. Kemmerling, S. Masson, W. Pilgram, W. Struczinski, G.A. Beck, J.B. Dainton, E. Gabathuler, D. Gillespie, P. Mason, S.J. Maxfield, J.M. Morton, D.G. Nunn, G.D. Patel, D.P.C. Sankey and L.A. Womersley, Precision reconstruction of charged tracks with simultaneous electron identification in a gaseous detector using transition radiation A310 (1991) 535
Grattarola, M., see Barbagelata, L. A304 (1991) 703
Grau Carles, A., M.T. Martin-Casallo and A. Grau Malonda, Spectrum unfolding and double window methods applied to standardization of ^{14}C and ^{3}H mixtures A307 (1991) 484
Grau Malonda, A., see Grau Carles, A. A307 (1991) 484
Graw, G., see Schiemenz, P. A305 (1991) 15
Graw, G., see Zanotti, E. A310 (1991) 706
Gray, B., see Kennedy, E.J. A307 (1991) 452
Gray, K.E., see Gabutti, A. A306 (1991) 220
Grazzi, M., see Baldini, A. A305 (1991) 475
Greaves, E.D., see Bernasconi, G. A307 (1991) 491
Green, K., see Richardson, D.J. A308 (1991) 568

Green, P.W., see Abegg, R. . . . A306 (1991) 432
Green, P.W., see Berdoz, A.R. . . . A307 (1991) 26
Greene, J.P., see Thomas, G.E. . . . A303 (1991) 162
Greene, J.P. and G.E. Thomas, The production of molybdenum targets for heavy-ion experiments by electron beam evaporation . . . A303 (1991) 165
Greeniaus, L.G., see Abegg, R. . . . A306 (1991) 432
Greenwood, N.M., see Allport, P.P. . . . A310 (1991) 155
Gregorich, K.E., Maximum likelihood decay curve fits by the simplex method . . . A302 (1991) 135
Gregory, R.B., Analysis of positron annihilation lifetime data by numerical Laplace inversion: Corrections for source terms and zero-time shift errors . . . A302 (1991) 496
Greiner, D., see Andersen, E. . . . A301 (1991) 69
Greiner, L., see Doke, T. . . . A302 (1991) 290
Gress, J., Y. Lu, A. Anagnostopoulos, J. Kochocki, J. Poirier, S. Mikocki and A. Trzupek, Identification of particles in air showers using tracking chambers and a thin absorber . . . A302 (1991) 368
Gress, J., see Lu, Y. . . . A307 (1991) 425
Grigoryan, N.E., see Harutunyan, V.V. . . . A308 (1991) 197
Grigoryan, N.E., see Harutunyan, V.V. . . . A308 (1991) 200
Grigoryeva, I.G., see Antonov, A.A. . . . A308 (1991) 442
Grimani, C., see Brunetti, M.T. . . . A302 (1991) 362
Grimani, C., see Golden, R.L. . . . A306 (1991) 366
Grimes, A., see Akbari, H. . . . A302 (1991) 415
Grinyov, B.V. and V.L. Yankelevich, On the axial distribution of light output in cylindrical scintillation detectors . . . A306 (1991) 229
Grion, N., see Paticchio, V. . . . A305 (1991) 150
Grishanin, A.B., A.V. Titov and A.S. Yarov, Formation of the synchrotron radiation continuum . . . A308 (1991) 120
Grishin, V.M., V.K. Ermilova and S.K. Kotelnikov, Fast particle identification based on the relativistic increase of the threshold efficiency in multilayer proportional detectors . . . A307 (1991) 273
Grishin, V.M., V.K. Ermilova and S.K. Kotelnikov, Ionization energy loss in very thin absorbers . . . A309 (1991) 476
Gritsuk, G.M., see Artemiev, A.N. . . . A308 (1991) 61
Gromova, T.I., see Mitrofanov, A.V. . . . A308 (1991) 347
Gronberg, J., see UA1 Collaboration . . . A305 (1991) 331
Grosnick, D., see Garnett, R. . . . A309 (1991) 508
Grosshoeg, G., see Elevant, T. . . . A306 (1991) 331
Grote, M., see Rüffer, R. . . . A303 (1991) 495
Grua, P., see Launspach, J. . . . A304 (1991) 368
Grüebler, W., see Singy, D. . . . A306 (1991) 36
Gruhn, C., see Andersen, E. . . . A301 (1991) 69
Grundey, T., J. Labedzki, P. Schütz and U. Trinks, The superconducting accelerating cavities for the Tritron . A306 (1991) 21
Gruwe, M., see Bähr, J. . . . A306 (1991) 169
Gruwé, M., see Bruyndonckx, P. . . . A310 (1991) 107
Guanziroli, M., see Adeva, B. . . . A309 (1991) 318
Guarino, F., see Ambrosio, M. . . . A301 (1991) 275
Guarino, G., see Paticchio, V. . . . A305 (1991) 150
Guazzoni, P., G. Taiocchi and L. Zetta, A mixer unit for data acquisition . . . A305 (1991) 442
Guenterberg, G., see Adams, T. . . . A306 (1991) 128
Guerard, B., see Bruyndonckx, P. . . . A310 (1991) 107
Guerard, B., P. Bruyndonckx, S. Tavernier and Zhang Shuping, TMAE vapour of CsI layers as photocathodes in a multiwire proportional counter working at atmospheric pressure . . . A310 (1991) 116
Guglielmi, A., see Cavestro, A. . . . A305 (1991) 488
Guha, J., see Dowell, D.H. . . . A304 (1991) 1
Guidevaux, J., see Dei-Cas, R. . . . A304 (1991) 212
Guidi, V., see Calabrese, R. . . . A309 (1991) 21
Guillaud, J.P., see Nastoll, H. . . . A306 (1991) 65
Guillaume, G., see Moszyński, M. . . . A307 (1991) 97
Guillon, J., see Moreau, F. . . . A306 (1991) 309
Guilloud, M., see Dei-Cas, R. . . . A304 (1991) 215
Guilloud, M., see Bois, R. . . . A304 (1991) 315
Gul, K., see Naqvi, A.A. . . . A306 (1991) 267
Guo, S.P., see Yuan, X.Y. . . . A308 (1991) 372
Guo, X., see Weng, H. . . . A307 (1991) 577
Gursky, J.C., see Fowler, M.M. . . . A303 (1991) 99

Gursky, J.C., see Koehler, P.E. A303 (1991) 182
Gurtu, A., see Adriani, O. A302 (1991) 53
Gurvich, A.M., see Belskiy, A.N. A308 (1991) 190
Guselnikov, V.S., see Vorobyov, A.A. A301 (1991) 167
Gusenko, S.N., see Tagabilev, G.Kh. A308 (1991) 251
Gustafson, R., see Badgett, W. A307 (1991) 231
Güsten, H., see D'Ambrosio, C. A307 (1991) 430
Gutierrez, P., see Bromberg, C. A307 (1991) 292
Guttmann, G.D., B.L. Henke and J.A. Kerner, Soft X-ray dosimetry using radiachromic nylon films (*Letter to the Editor*) A305 (1991) 216
Guyot-Sionnest, P., see Prazeres, R. A304 (1991) 72
Gys, T., see WA84 Collaboration A310 (1991) 485

Haan, H., see Adriani, O. A302 (1991) 53
Haas, J., see Dreyer, T. A309 (1991) 184
Haba, J., A. Suzuki, N. Kanda, Y. Nagashima, Y. Fukushima, S. Nakamura, K. Ogawa, M. Sakuda, Y. Watase, N. Terunuma and I. Nakano, A new method to remove helium impurity from a xenon filled detector with a membrane gas separator A303 (1991) 346
Habermehl, H.-E., W. Kriegseis and A. Scharmann, Calculation of the time dependence of the pulse shape in a cylindrical proportional counter using the Diethorn assumptions A303 (1991) 370
Hadfield, A.T., see Clifton, I.J. A303 (1991) 476
Haensel, R., Status of the ESRF at the end of 1990 . . . . . A303 (1991) 405
Hafidouni, M., see Andersen, E. A301 (1991) 69
Hafizi, B., see Tang, C.M. A304 (1991) 497
Haga, T., see Mori, C. A310 (1991) 437
Hagberg, E., see Galindo-Uribarri, A. A301 (1991) 457
Hagedoorn, H.L., see Botman, J.I.M. A304 (1991) 192
Hagge, L., see ZEUS Calorimeter Group A309 (1991) 101
Hahn, A., see Finkbeiner, F. A306 (1991) 215
Hahn, A.A., see Bartoszek, L. A301 (1991) 47
Hahn, K., see Berz, M. A307 (1991) 1
Hajdu, J., see Clifton, I.J. A303 (1991) 476
Hajima, R., H. Ohashi, S. Kondo and M. Akiyama, Status of the free electron laser experiment at UT/NERL A304 (1991) 230
Hakansson, A., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Halama, H., see Bozoki, E.S. A307 (1991) 156
Hall, C., see Lewis, R. A310 (1991) 70
Hall, C.J., R.A. Lewis, B. Parker and J. Worgan, 2D detectors for synchrotron X-ray sources, some comparative tests A310 (1991) 215
Hall, G., see Roe, S. A310 (1991) 192
Hall, G., see Avset, B.S. A310 (1991) 203
Hall, G., see Edwards, M. A310 (1991) 283
Hall, G., see Sanghera, B. A310 (1991) 455
Hall, G., see Raymond, D.M. A310 (1991) 552
Hall, S.J., see Anthony, I. A301 (1991) 230
Halley, A.W., see Atwood, W.B. A306 (1991) 446
Hallgren, B., Possible applications of the sigma delta digitizer in particle physics A307 (1991) 436
Hallin, E., see Clayton, J. A305 (1991) 116
Halpern, I., see Babusci, D. A305 (1991) 19
Hamagaki, H., see Sugitate, T. A307 (1991) 265
Hamatsu, R., see ZEUS Calorimeter Group A309 (1991) 101
Hammann, E., see Maier-Komor, P. A303 (1991) 88
Han, R., see Weng, H. A307 (1991) 577
Hanashima, S., see Ideno, K. A302 (1991) 385
Handler, T., see Job, P.K. A309 (1991) 60
Hanna, D., see ZEUS Calorimeter Group A309 (1991) 101
Hanne, G.F., see Geesmann, H. A307 (1991) 413
Hao, W., see Acosta, D. A302 (1991) 36
Hao, W., see Acosta, D. A305 (1991) 55
Hao, W., see Acosta, D. A308 (1991) 481
Hao, W., see Acosta, D. A309 (1991) 143
Haouat, G., see Dei-Cas, R. A304 (1991) 215

Haouat, G., see Balleyguier, P. A304 (1991) 308
Happek, U., see Blum, E.B. A307 (1991) 568
Hara, M., see Nagaoka, R. A302 (1991) 9
Hara, T., see Saito, T. A301 (1991) 568
Harford, J.J., see Squire, J.M. A310 (1991) 349
Hári, P., see Aite, K. A305 (1991) 533
Harihar, P., W.J. Stapor, A.B. Campbell and A.R. Knudson, Rise time spectroscopy of protons and alphas in a stilbene scintillator A302 (1991) 469
Harrison, A., L.C. Lane, R.H. Templer and J.M. Seddon, Mechanism of charge storage and luminescence stimulation in BaFBr : RE phosphors A310 (1991) 220
Harrison, A., see Templer, R.H. A310 (1991) 232
Harrison, K., see WA84 Collaboration A310 (1991) 485
Harrison, M., see Buttar, C.M. A310 (1991) 208
Harrison, R.M., Digital radiography – a review of detector design A310 (1991) 24
Hart, G., see Armijo, V. A303 (1991) 298
Hart, M., see Berman, L.E. A302 (1991) 558
Hartjes, F., B. Hendriksen, J. Schmitz, H. Schuijlenburg and F. Udo, Operation of the microstrip gas detector A310 (1991) 88
Hartjes, F.G., see Acosta, D. A302 (1991) 36
Hartjes, F.G., see Acosta, D. A305 (1991) 55
Hartjes, F.G., see Acosta, D. A308 (1991) 481
Hartjes, F.G., see Acosta, D. A309 (1991) 143
Hartley, B.M., The real-time fitting of radioactive decay curves. 1. Theory A308 (1991) 599
Hartley, P.E. and A.J. McEwan, A fast pulse height analysis system with gain stabilisation for nuclear process control instruments A301 (1991) 269
Hartman, K., see Bromberg, C. A307 (1991) 292
Hartman, S.C., see Aghamir, F. A304 (1991) 155
Hartmann, J., H.-L. Schneider, G. Geitz, E. Hilger, G. Jahnen, M. Krämer, C. Kuss and H. Reike, Light guides for the ZEUS forward and rear calorimeters A305 (1991) 366
Hartmann, J., see ZEUS Calorimeter Group A309 (1991) 101
Hartmann, W., see Folger, H. A303 (1991) 24
Harutunyan, V.V., A.N. Belsky, V.A. Gevorkyan, N.E. Grigoryan and H.N. Eritsyan, The study of corundum single crystal reflection spectra in the corundum fundamental absorption region A308 (1991) 197
Harutunyan, V.V., V.A. Gevorkyan and N.E. Grigoryan, Vacuum ultraviolet luminescence excitation spectra of α-Al_2O_3 single crystals A308 (1991) 200
Harvey, J.W., see Bostock, I.J. A302 (1991) 355
Harvey, P.J., see McKee, B.T.A. A310 (1991) 545
Hasan, M.A., see Bartoszek, L. A301 (1991) 47
Hasegawa, K., Y. Yoshioka, S. Ohya and M. Sasano, Imaging plate readout system A310 (1991) 366
Hasegawa, K., K. Mochiki, H. Takahashi, T. Inada, Y. Hayakawa, C. Ikeda and R. Katoh, An amorphous silicon imaging detector with a phosphor sheet for nondestructive testing and radiography A310 (1991) 471
Hasegawa, M., see Ito, Y. A305 (1991) 269
Hasegawa, T., see ZEUS Calorimeter Group A309 (1991) 101
Haselhoff, E.H., see Botman, J.I.M. A304 (1991) 192
Hasell, D., see ZEUS Calorimeter Group A309 (1991) 101
Hatano, Y., see Saito, T. A301 (1991) 568
Hattori, T., see Sugai, I. A303 (1991) 59
Hauff, D., see Krause, K.-H. A310 (1991) 577
Hauss, B., see Lazar, N.H. A304 (1991) 243
Hawkesworth, M.R., D.J. Parker, P. Fowles, J.F. Crilly, N.L. Jefferies and G. Jonkers, Nonmedical applications of a positron camera A310 (1991) 423
Hayaishi, T., see Yagishita, A. A306 (1991) 578
Hayakawa, Y., see Hasegawa, K. A310 (1991) 471
Hayano, R.S., see Yamazaki, T. A305 (1991) 406
Hayashi, Y., see Adarkar, H. A308 (1991) 574
Hayashida, H., see Soramoto, S. A306 (1991) 524
Hayashida, H., see Okumura, A. A306 (1991) 530
Haywood, S., see Atwood, W.B. A306 (1991) 446
Hazen, E., see Klein, S.R. A309 (1991) 536
Hazumi, M., see ZEUS Calorimeter Group A309 (1991) 101
He, C.F., see Zhu, R.Y. A302 (1991) 69
He, X.C., see Yuan, X.Y. A308 (1991) 372

He, X.C., H.S. Shen, X.Y. Yuan and Z.Q. Wu, Determination of the deviations in multilayers from X-ray diffraction profiles A308 (1991) 375
He Zhong, see Bird, A.J. A310 (1991) 332
Healey, D.C., see Abegg, R. A306 (1991) 432
Hedges, S., see Acton, P. A305 (1991) 504
Hedin, L., Properties of electron self-energies and their role in electron spectroscopies A308 (1991) 169
Heer, H., see Schefer, J. A310 (1991) 416
Heeringa, W., see Finkbeiner, F. A306 (1991) 215
Heiderich, M., R. Reinartz, R. Kurz and J. Schelten, A two-dimensional scintillation detector for small angle neutron scattering A305 (1991) 423
Heijne, E., see WA82 Collaboration A309 (1991) 401
Heikkinen, P., A semi-3D method of calculating the magnetic field in a conventional sector-focused cyclotron A301 (1991) 417
Heil, R.D., see Frommhold, Th. A310 (1991) 657
Heinemann, B., see Klein, P. A305 (1991) 517
Heintz, U., see Schamberger, R.D. A309 (1991) 450
Heintze, J., see Fischle, H. A301 (1991) 202
Heintze, J., see Feuerstack, M. A310 (1991) 287
Heinz, R.M., see Nutter, S. A310 (1991) 665
Hejduk, J., see Kotrbova, M. A308 (1991) 456
Hellingman, P., see van Amersfoort, P.W. A304 (1991) 163
Helliwell, J.R., Macromolecular crystallography using synchrotron radiation: progress on station 9.5 and a novel (toast-rack) detector scheme for Laue diffraction A308 (1991) 260
Hempstead, M., J. Chauveau, G. Comby, J. Séguinot and T. Ypsilantis, A measurement of the refractive index of sodium fluoride in the far ultraviolet A306 (1991) 207
Henderson, R.S., see Openshaw, R. A307 (1991) 298
Hendriksen, B., see Hartjes, F. A310 (1991) 88
Henke, B.L., see Guttmann, G.D. A305 (1991) 216
Henkelmann, T., see Korschinek, G. A302 (1991) 376
Henkes, Th.H., see Acosta, D. A302 (1991) 36
Henneberg, J.M., see Krause, K.-H. A310 (1991) 577
Henning, A.K., see Fisch, E.E. A304 (1991) 679
Henriques, A., see Acosta, D. A302 (1991) 36
Henriques, A., see Acosta, D. A305 (1991) 55
Henriques, A., see Acosta, D. A308 (1991) 481
Henriques, A., see Acosta, D. A309 (1991) 143
Hepburn, I.D., see Zammit, C.C. A310 (1991) 244
Hermeline, F., see Adolf, A. A304 (1991) 297
Herminghaus, H., The polytron as a cw electron accelerator in the 10 GeV range A305 (1991) 1
Herrick, W., see Siegmund, O.H.W. A310 (1991) 311
Herring, J.R.H., G.K. Skinner and O. Emam, A cylindrical surface MWPC for all-round X-ray vision A310 (1991) 341
Hertenberger, R., see Zanotti, E. A310 (1991) 706
Hervás, L., see ZEUS Calorimeter Group A309 (1991) 101
Herynek, I., see Antoš, J. A302 (1991) 277
Hesselink, W.H.A., see Steijger, J. A310 (1991) 513
Heuer, D., see Chambon, B. A307 (1991) 333
Heuer, D., see Désesquelles, P. A307 (1991) 366
Heusch, B., see Moszyński, M. A307 (1991) 97
Hey, J., see Anton, G. A310 (1991) 631
Hiei, F., see Matsuoka, N. A305 (1991) 415
Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, R. Brenner, M. Andersson, K. Leinonen and H. Ronkainen, Ion-implanted silicon detectors processed in a 100 mm wafer A301 (1991) 116
Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, R. Brenner, M. Andersson, K. Leinonen, H. Ronkainen, L. Hubbeling, M. Turala, W. Dulinski, D. Husson, A. Lounis, M. Schaeffer, R. Turchetta and J. Chauveau, Beam test results of an ion-implanted silicon strip detector on a 100 mm wafer A305 (1991) 173
Hietanen, I., see Hubbeling, L. A310 (1991) 197
Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, M. Voutilainen, R. Brenner, M. Andersson, K. Leinonen and H. Ronkainen, Ion-implanted capacitively coupled silicon strip detectors with integrated polysilicon bias resistors processed on a 100 mm wafer A310 (1991) 671
Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, R. Brenner, M. Andersson, K. Leinonen, H. Ronkainen, M. Turala, P. Weilhammer, W. Dulinski, D. Husson, A. Lounis, M. Schaeffer, R. Turchetta and J. Chauveau, Beam test results of an ion-implanted capacitively coupled silicon strip detector processed on a 100 mm silicon wafer A310 (1991) 677

Hifumi, T., see Sato, S. . . . A304 (1991) 649
Higa, K., see Ejiri, H. . . . A302 (1991) 304
Hilger, E., see Hartmann, J. . . . A305 (1991) 366
Hilger, E., see ZEUS Calorimeter Group . . . A309 (1991) 101
Hill, G., see Buttar, C.M. . . . A310 (1991) 208
Hill, J.C., see Allport, P.P. . . . A310 (1991) 155
Hill, N., see Derrick, M. . . . A309 (1991) 77
Hillas, A.M., see Walker, A. . . . A301 (1991) 574
Hiller, K., see Bähr, J. . . . A306 (1991) 169
Hilscher, D., see Lehmann, M. . . . A309 (1991) 530
Hilse, T., see Pinfold, J.L. . . . A302 (1991) 434
Hinde, D.J., see Wei, J.X. . . . A306 (1991) 557
Hinde, P.S., see Allison, J. . . . A310 (1991) 527
Hinderer, G., Deflection and focusing of charged particles by cavities of general shape . . . A302 (1991) 6
Hinderer, S., see Wirth, H.L. . . . A303 (1991) 106
Hirano, K., see Ishikawa, T. . . . A308 (1991) 356
Hiraoka, T., see Kanai, T. . . . A302 (1991) 158
Hirayama, H., Effects of dead material to the electromagnetic calorimeter and energy resolution recovery with "massless gap" . . . A302 (1991) 427
Hirayama, H., see Nakashima, H. . . . A310 (1991) 696
Hirosawa, I., see Matsui, J. . . . A303 (1991) 532
Hirose, M., see Ito, Y. . . . A305 (1991) 269
Hirose, T., see Oyama, T. . . . A305 (1991) 71
Hitachi, A., see Ichinose, H. . . . A305 (1991) 111
Hitachi, A., see Masuda, K. . . . A309 (1991) 489
Hladký, J., see Antoš, J. . . . A302 (1991) 277
Hoek, M., see Drozdowicz, K. . . . A306 (1991) 315
Hoek, M., see Elevant, T. . . . A306 (1991) 331
Hoeneisen, B., D.F. Anderson and S. Kwan, A CsI–TMAE photocathode with low-pressure readout for RICH A302 (1991) 447
Hoeneisen, B., see Antillón, A. . . . A305 (1991) 239
Hoeneisen, B., see Antillón, A. . . . A305 (1991) 247
Hofer, H., see Adriani, O. . . . A302 (1991) 53
Hofer, H., see Akbari, H. . . . A302 (1991) 415
Hofer, H., P. Le Coultre, H.T. Li, X.G. Li, Y.S. Lu, X.W. Tang, J.H. Wang, R.J. Wu and K.S. Yang, Some properties of thin gap gas chambers . . . A309 (1991) 422
Hoffart, A., see Backenstoss, G. . . . A310 (1991) 518
Hoffman, D.C., see Cai Shan-Yu . . . A303 (1991) 141
Hofmann, W., see Feuerstack, M. . . . A310 (1991) 287
Hogan, G.E., see Armijo, V. . . . A303 (1991) 298
Hohlmann, M., see Grässler, H. . . . A310 (1991) 535
Holland, A., see Castelli, C. . . . A310 (1991) 240
Hollander, R.W., see Schooneveld, E.M. . . . A305 (1991) 581
Hollander, R.W., see Dorenbos, P. . . . A310 (1991) 236
Hollander, R.W., see Schooneveld, E.M. . . . A310 (1991) 385
Hollatz, R., see Rüffer, R. . . . A303 (1991) 495
Hollingsworth, R.E., see Xi, J. . . . A301 (1991) 219
Hollos, G., see Berkovits, D. . . . A302 (1991) 379
Holm, L., see Cameron, J.M. . . . A305 (1991) 257
Holm, U., see ZEUS Calorimeter Group . . . A309 (1991) 101
Holmes, R., D.-H. Kim, K.S. Kumar, P.A. Souder, D. Benton, G.D. Cates, N. Newbury and C. Pillai, Operation of the LAMPF stopped muon channel for small gas targets . . . A303 (1991) 226
Holmes, S.N., see Spooner, N.J.C. . . . A310 (1991) 227
Holroyd, R.A., see Geer, S. . . . A301 (1991) 61
Holsinger, R.F., see Morgan, G.L. . . . A308 (1991) 544
Holzscheiter, K., see Sailor, W.C. . . . A303 (1991) 285
Holzscheiter, K., see Simon-Gillo, J. . . . A309 (1991) 427
Honma, T., see Tanabe, T. . . . A307 (1991) 7
Hori, N., see Sugimitsu, T. . . . A309 (1991) 218
Horn, D., see Galindo-Uribarri, A. . . . A301 (1991) 457
Horvath, I., see Akbari, H. . . . A302 (1991) 415
Hou, Y., see Buttar, C.M. . . . A310 (1991) 208

Houston, P., see Buttar, C.M. A310 (1991) 208
Hovakimian, G.G., see Egikian, D.L. A308 (1991) 397
Hovsepyan, Yu.I., see Britvich, G.I. A308 (1991) 509
Hrdy, J., Horizontal divergence of synchrotron radiation, which is accepted by a double crystal $(n,-n)$ monochromator with sagittally bent second crystal (*Letter to the Editor*) A306 (1991) 406
Hrisoho, A., see Ardelean, J. A305 (1991) 549
Hristova, A.V., see Vapirev, E.I. A307 (1991) 126
Hrubec, J., see Andersen, E. A301 (1991) 69
Hu Shang-ze, see Zheng Zheng A301 (1991) 337
Huang Min, see Xie Jialin A304 (1991) 770
Huashun, Z., W. Shuhong and Z. Qingyi, Tuning and measurement of the 35 MeV Beijing Proton Linac A307 (1991) 167
Hubbard, B., see Sonnenblick, R. A310 (1991) 189
Hubbard, B., see Hylen, J. A310 (1991) 497
Hubbard, B., see Sadrozinski, H.F.-W. A310 (1991) 557
Hubbeling, L., see Hietanen, I. A305 (1991) 173
Hubbeling, L., M. Turala, P. Weilhammer, R. Brenner, I. Hietanen, J. Lindgren, T. Tuuva, W. Dulinski, D. Husson, A. Lounis, M. Schaeffer, R. Turchetta, J. Chauveau, B.S. Avset and L. Evensen, Measurement of spatial resolution of a double-sided AC-coupled microstrip detector A310 (1991) 197
Huber, G.M., see Lolos, G.J. A309 (1991) 552
Hubert, Ph., see Dassie, D. A309 (1991) 465
Huck, A., see Moszyński, M. A307 (1991) 97
Hudik, N.A., see Kislovskii, E.N. A308 (1991) 297
Hudson, J.D., see Lozowski, W.R. A303 (1991) 34
Hudyma, R., see Dowell, D.H. A304 (1991) 1
Hudyma, R., see Laucks, M.L. A304 (1991) 25
Hufford, G.E., see Bartoszek, L. A301 (1991) 47
Hughes-Jones, R.E., see Allison, J. A310 (1991) 527
Hull, R., see Golden, R.L. A306 (1991) 366
Humbert, R., see Pinfold, J.L. A302 (1991) 434
Hunter, S.D., Calibration and adjustment of the EGRET coincidence/time-of-flight system A307 (1991) 520
Hunter, T., see Napolitano, J. A301 (1991) 465
Hurst, R., see WA82 Collaboration A309 (1991) 401
Husson, D., see Hietanen, I. A305 (1991) 173
Husson, D., see Lehmann, M. A309 (1991) 530
Husson, D., see Hubbeling, L. A310 (1991) 197
Husson, D., see Hietanen, I. A310 (1991) 677
Huston, J., see Bromberg, C. A307 (1991) 292
Huttel, E., see Friedrich, L. A309 (1991) 11
Huwyler, O., see Singy, D. A306 (1991) 36
Huxley, H.E., see Faruqi, A.R. A310 (1991) 359
Hylen, J., J. Matthews, A. Weinstein, B. Hubbard, K. O'Shaughnessy, D. Pitzl, A. Seiden, W. Miller, T. Thompson, M. Gamble, C. Baker, G. Dransfield, H. Ziock, R. Reid, K. Woloshun and J. Bradley, Silicon tracker for the superconducting supercollider A310 (1991) 497
Hyodo, T., see Ito, Y. A305 (1991) 269

Iacobucci, G., see Alvisi, C. A305 (1991) 30
Iannarelli, M., see Babusci, D. A305 (1991) 19
Iaydjiev, P., see Richardson, D.J. A308 (1991) 568
Ichimiya, A., see Ito, Y. A305 (1991) 269
Ichinose, H., T. Doke, J. Kikuchi, A. Hitachi, K. Masuda and E. Shibamura, The response of a liquid Xe ionization chamber to 5.3 MeV α-particles A305 (1991) 111
Ichinose, H., see Masuda, K. A309 (1991) 489
Iconomidou-Fayard, L., see RD3 Collaboration A309 (1991) 438
Ide, S., see Kobayashi, M. A306 (1991) 139
Ideno, K., Y. Tomita, Y. Sugiyama, H. Ikezoe, S. Hanashima and Y. Nagame, A two-dimensional position-sensitive detection system for the ^{8}Be nuclei in heavy ion reactions (*Letter to the Editor*) A302 (1991) 385
Ifuku, H., see Sugitate, T. A307 (1991) 265
Igarashi, R., see Cameron, J.M. A305 (1991) 257
Igiuni, A., see Bellini, G. A305 (1991) 395
Iida, T., see Kawade, K. A301 (1991) 594

Iivonen, A., K. Riikonen, R. Saintola, K. Valli and K. Morita, Focusing ions by viscous drag and weak electric fields in an ion guide . . . A307 (1991) 69
Ikeda, C., see Hasegawa, K. . . . A310 (1991) 471
Ikeda, H., N. Ujiie and K. Kawaguchi, Radiation effect on a fast bipolar amplifier . . . A308 (1991) 596
Ikeda, S., see Inoue, K. . . . A309 (1991) 294
Ikezawa, M., see Shibata, Y. . . . A301 (1991) 161
Ikezoe, H., see Ideno, K. . . . A302 (1991) 385
Ilyas, M.M., see Adriani, O. . . . A302 (1991) 53
Imasaki, K., see Mima, K. . . . A304 (1991) 93
Imasaki, K., see Ohigashi, N. . . . A304 (1991) 476
Imasaki, K., see Tsunawaki, Y. . . . A304 (1991) 753
Imrie, D.C., A.H. Moghul, K. Wells, G. Charpak and V. Peskov, Development of large-area, air-stable photocathodes for the ultraviolet . . . A310 (1991) 122
Inada, T., see Hasegawa, K. . . . A310 (1991) 471
Incicchitti, A., see Belli, P. . . . A310 (1991) 150
Ingelbrecht, C., F. Peetermans, F. De Corte, A. De Wispelaere, C. Vandecasteele, E. Courtijn and P. D'Hondt, Aluminium–gold reference materials for the k_0-standardisation of neutron activation analysis . . A303 (1991) 119
Ingold, G., see Lehmann, M. . . . A309 (1991) 530
Ingram, C.H.Q., see Backenstoss, G. . . . A310 (1991) 518
Inoue, K., T. Kanaya, Y. Kiyanagi, S. Ikeda, K. Shibata, H. Iwasa, T. Kamiyama, N. Watanabe and Y. Izumi, A high-resolution neutron spectrometer using mica analyzers and the pulsed cold source . . . A309 (1991) 294
Inoue, M., see Nakayama, S. . . . A302 (1991) 472
Insolia, A., see Fonte, R. . . . A307 (1991) 80
Introzzi, G., see Antoniazzi, L. . . . A307 (1991) 312
Inzani, P., see Bellini, G. . . . A305 (1991) 395
Iori, I., see Bassini, R. . . . A305 (1991) 449
Iori, M. and F. Massa, Performances of a resistive plate counter at high ionization rates . . . A306 (1991) 159
Iracane, D., see Dei-Cas, R. . . . A304 (1991) 215
Iracane, D. and J.L. Ferrer, A mechanism for the spectral broadening of a Compton free electron laser . . . A304 (1991) 626
Iracane, D. and J.L. Ferrer, Asymptotic behaviour of a Compton free electron laser . . . A304 (1991) 629
Iracane, D., see Binet, A. . . . A304 (1991) 707
Iracane, D., see Gover, A. . . . A304 (1991) 827
Isaac, M.C.P., see Dassie, D. . . . A309 (1991) 465
Isacson, A., see Schefer, J. . . . A310 (1991) 416
Isaeva, L.G., see Anashin, V.V. . . . A308 (1991) 50
Isbert, V., see Audit, G. . . . A301 (1991) 473
Ishi, K., see Shibata, Y. . . . A301 (1991) 161
Ishida, N., see Masuda, K. . . . A309 (1991) 489
Ishida, T., see Kawakubo, T. . . . A302 (1991) 397
Ishii, M., see Kobayashi, M. . . . A302 (1991) 443
Ishii, M., see Kobayashi, M. . . . A306 (1991) 139
Ishii, T., see ZEUS Calorimeter Group . . . A309 (1991) 101
Ishii, Y., see Shin, K. . . . A308 (1991) 609
Ishikawa, T., K. Hirano and S. Kikuta, Applications of perfect crystal X-ray optics . . . A308 (1991) 356
Ishikawa, T., see Aristov, V.V. . . . A308 (1991) 413
Ishimoto, S., see Kobayashi, M. . . . A305 (1991) 401
Islam, M.A., see Moreh, R. . . . A309 (1991) 503
Isoyama, G., Present status of the UVSOR light source . . . A308 (1991) 31
Isozumi, Y., see Fukumura, K. . . . A301 (1991) 482
Isozumi, Y., see Fukumura, K. . . . A301 (1991) 485
Itahashi, T., see Tanaka, M. . . . A302 (1991) 460
Itahashi, T., see Nakayama, S. . . . A302 (1991) 472
Ito, M., see Sakai, N. . . . A303 (1991) 488
Ito, M. and Y. Amemiya, X-ray energy dependence and uniformity of an imaging plate detector . . . A310 (1991) 369
Ito, N., see Adarkar, H. . . . A308 (1991) 574
Ito, Y., M. Hirose, S. Takamura, O. Sueoka, I. Kanazawa, K. Mashiko, A. Ichimiya, Y. Murata, S. Okada, M. Hasegawa and T. Hyodo, Brightness enhanced intense slow positron beam produced using an electron linac . . . A305 (1991) 269
Itoh, F., see Sakai, N. . . . A303 (1991) 488
Itoh, K., see Sugitate, T. . . . A307 (1991) 265
Ivanchenko, T.I., see Bianconi, A. . . . A308 (1991) 248

Ivanchenkov, S.N., see Aghamir, F. A304 (1991) 155
Ivanov, A.B., see Zanevsky, Yu.V. A310 (1991) 362
Ivanov, V.V., see Zrelov, P.V. A310 (1991) 623
Ivanovsky, M.A., see Artemiev, V.A. A303 (1991) 309
Iversen, S.G., see Morgan, G.L. A308 (1991) 544
Iwaki, M., see Matsuoka, N. A305 (1991) 415
Iwasa, H., see Inoue, K. A309 (1991) 294
Iwazumi, T., see Sakai, N. A303 (1991) 488
Izac, C., see Dassie, D. A309 (1991) 465
Izumi, Y., see Inoue, K. A309 (1991) 294
Iżycki, M., M. Martin, L. Rosselet and N. Solomey, A large multistep avalanche chamber: description and performance A310 (1991) 98

Jacak, B.V., see Simon-Gillo, J. A309 (1991) 427
Jacholkowski, A., see WA82 Collaboration A309 (1991) 401
Jackson, R.H., see Pershing, D.E. A304 (1991) 127
Jacobi, B., see Fréjus Collaboration A302 (1991) 406
Jacobsen, J.E., see Bellantoni, L. A310 (1991) 618
Jacotin, M., see Coc, A. A305 (1991) 143
Jacquot, B., see Delaunay, M. A305 (1991) 223
Jaeger, J.J., see Delpierre, P. A305 (1991) 627
Jahn, A., see Atwood, W.B. A306 (1991) 446
Jahnen, G., see Hartmann, J. A305 (1991) 366
Jahnke, U., see Lehmann, M. A309 (1991) 530
Jaipal, see Avasthi, D.K. A303 (1991) 43
Jakobsson, B., see Whitlow, H.J. A310 (1991) 636
James, M., R. Donahue, R. Miller and W.R. Nelson, A new target design and capture strategy for high-yield positron production in electron linear colliders A307 (1991) 207
Janas, Z., see Parmonen, J.M. A306 (1991) 504
Jans, E., see Steijger, J. A310 (1991) 513
Jany, P., see Finkbeiner, F. A306 (1991) 215
Jaques, J., see Bross, A.D. A307 (1991) 35
Jared, R.C., see Atwood, W.B. A306 (1991) 446
Jarlskog, G., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Jarmer, J.J., see Garnett, R. A309 (1991) 508
Jaroszynski, D., see Couprie, M.E. A304 (1991) 58
Jaroszynski, D., see Prazeres, R. A304 (1991) 72
Jaroszynski, D.A., see van Amersfoort, P.W. A304 (1991) 163
Jarron, P., see Nygård, E. A301 (1991) 506
Jarron, P., see WA82 Collaboration A309 (1991) 401
Jauho, P.P., see Parmonen, J.M. A306 (1991) 504
Jayamanna, K., see Buchmann, L. A306 (1991) 413
Jayanthi, U.B. and J. Braga, Physical implementation of an antimask in URA based coded mask systems A310 (1991) 685
Jeanjean, J., see Buon, J. A306 (1991) 93
Jedicke, R., see Errede, D. A309 (1991) 386
Jefferies, N.L., see Hawkesworth, M.R. A310 (1991) 423
Jenni, P., see Acosta, D. A308 (1991) 481
Jenni, P., see RD3 Collaboration A309 (1991) 438
Jeon, D.-O, see Gordon, M.M. A301 (1991) 182
Jeppesen, R., see Garnett, R. A309 (1991) 508
Jerby, E., G. Bekefi and J.S. Wurtele, Observations of periodic intensity bursts from a free electron laser oscillator A304 (1991) 107
Jimack, M., see Botlo, M. A302 (1991) 331
Jing, T., see Drewery, J.S. A310 (1991) 165
Job, P.K., L. Price, J. Proudfoot, T. Handler, B.L. Bishop and T.A. Gabriel, Comparison of CALOR89 model predictions with scintillator plate calorimeter data A309 (1991) 60
Johnson, B.C., see Debenham, P.H. A304 (1991) 208
Johnson, D.R., see Frautschi, M. A307 (1991) 52
Johnson, K., see Garnett, R. A309 (1991) 508
Johnson, K.F. and H.L. Whitaker, Temperature treatment of plastic scintillator affects radiation hardness (*Letter to the Editor*) A301 (1991) 372

Johnson, P., see Dowell, D.H. A304 (1991) 1
Johnson, P., see Laucks, M.L. A304 (1991) 25
Johnson, P., see Dowell, D.H. A304 (1991) 336
Johnson, R.G., see Debenham, P.H. A304 (1991) 208
Johnson, R.N., see Borden, M.J. A303 (1991) 63
Johnson, R.P., see Atwood, W.B. A306 (1991) 446
Johnson, W.J., see Lumpkin, A.H. A304 (1991) 379
Johnson, W.J.D., see Feldman, D.W. A304 (1991) 224
Johnson, W.J.D. and C.T. Abdallah, Robust control of accelerators A304 (1991) 364
Johnstone, C., see Bromberg, C. A307 (1991) 292
Jokinen, A., see Parmonen, J.M. A306 (1991) 504
Joksch, S., G. Marot, A. Freund and M. Krisch, Liquid nitrogen cooling of monochromator crystals exposed to intense synchrotron radiation A306 (1991) 386
Joly, R., see Dei-Cas, R. A304 (1991) 215
Joly, R., see Balleyguier, P. A304 (1991) 308
Joly, S., see Dei-Cas, R. A304 (1991) 215
Joly, S., see Balleyguier, P. A304 (1991) 308
Joly, S., see De Brion, J.P. A304 (1991) 333
Jonasson, P., see Budtz-Jørgensen, C. A310 (1991) 82
Jones, L.W., see Adriani, O. A302 (1991) 53
Jones, P.G., see Andersen, E. A301 (1991) 69
Jong, R.A., see Shay, H.D. A304 (1991) 262
Jonkers, G., see Hawkesworth, M.R. A310 (1991) 423
Josa, M.I., see Bacci, C. A301 (1991) 445
Josa, M.I., see UA1 Collaboration A305 (1991) 331
Joshi, C.J., see Aghamir, F. A304 (1991) 155
Jost, D.T., see Gäggeler, H.W. A309 (1991) 201
Joyce, A., see Bateman, J.E. A310 (1991) 354
Judd, E., see Andersen, E. A301 (1991) 69
Jui, C.C.H., see Armijo, V. A303 (1991) 298
Jullian, S., see Fréjus Collaboration A302 (1991) 406
Jullian, S., see Dassie, D. A309 (1991) 465
Juretschke, H.J., see Alexandropoulos, N.G. A308 (1991) 282

Kaczanowicz, E., see Martoff, C.J. A301 (1991) 376
Kader, H., see Zanotti, E. A310 (1991) 706
Kadokura, E., see Kawakubo, T. A302 (1991) 397
Kadyrzhanov, K.K., N.F. Yugai, Yu.Zh. Tuleushev and S.V. Mytnichenko, Glancing angle X-ray diffractometry of ion-implanted metals by means of synchrotron radiation A308 (1991) 308
Kagan, H., see Frautschi, M. A307 (1991) 52
Kalbfleisch, G., see Ross, W. A310 (1991) 493
Kalmani, S.D., see Adarkar, H. A308 (1991) 574
Kalmar, G., see Volkov, A.D. A306 (1991) 278
Kalmar, H., A.G. Ketikjan, E.V. Komissarov, V.S. Kurbatov, V.Z. Serdiuk, V.V. Sidorkin, A.V. Voskanjan and B.G. Zalikhanov, New methods for constructing multiwire chambers A307 (1991) 279
Kalyagin, M.A., see Stankevich, V.G. A308 (1991) 193
Kamada, T., see Ejiri, H. A302 (1991) 304
Kamenskikh, I.A., see Belskiy, A.N. A308 (1991) 190
Kamermans, R., see Schotanus, P. A310 (1991) 523
Kamili, A., see Rudolf, G. A307 (1991) 325
Kamitsubo, H., 8 GeV synchrotron radiation facility project in Japan: JAERI–RIKEN SPring-8 Project A303 (1991) 421
Kamiyama, T., see Inoue, K. A309 (1991) 294
Kammerlocher, H., see ZEUS Calorimeter Group A309 (1991) 101
Kamyshkov, Yu., see Adriani, O. A302 (1991) 53
Kanai, T., K. Kawachi and T. Hiraoka, An irradiation facility and a beam simulation program for proton radiation therapy A302 (1991) 158
Kanaya, T., see Inoue, K. A309 (1991) 294
Kanazawa, I., see Ito, Y. A305 (1991) 269
Kanda, N., see Haba, J. A303 (1991) 346
Kandaka, N., see Koide, T. A308 (1991) 635
Kandaswamy, J., see Bebek, C. A302 (1991) 261

Kandiah, K. and F.B. Whiting, Nonideal behaviour of buried channel CCDs caused by oxide and bulk silicon traps ... A305 (1991) 600
Kanekal, S., see Schamberger, R.D. ... A309 (1991) 450
Kantele, J., see Parmonen, J.M. ... A306 (1991) 504
Kanzaki, J., see Oyama, T. ... A305 (1991) 71
Kapitza, S.P. and V.K. Semyonov, Reflex free electron laser ... A308 (1991) 97
Kaplan, D., see Akbari, H. ... A302 (1991) 415
Kaplan, D., see Ross, W. ... A310 (1991) 493
Kaplan, S.N., see Drewery, J.S. ... A310 (1991) 165
Kapoor, V., see Bromberg, C. ... A307 (1991) 292
Kapustinsky, J., see Simon-Gillo, J. ... A309 (1991) 427
Karabekov, I.P., Results of the development of fast and precise methods for the determination of the structural perfection of crystals using synchrotron radiation at the Yerevan Physics Institute ... A308 (1991) 272
Karadi, C.A., see Bertsche, K.J. ... A301 (1991) 358
Karar, A., see Aleksan, R. ... A305 (1991) 512
Karbushev, N.I. and A.D. Shatkus, To the theory of induced scattering of electromagnetic waves by an electron beam in a regular waveguide ... A304 (1991) 559
Karchin, P., see Ross, W. ... A310 (1991) 493
Karchin, P.E., Use of pixel detectors in elementary particle physics ... A305 (1991) 497
Karelin, A.K., see Artemiev, V.A. ... A303 (1991) 309
Karimäki, V., Effective circle fitting for particle trajectories ... A305 (1991) 187
Karpinski, W., see Adriani, O. ... A302 (1991) 53
Karwowski, H.J., see Crosson, E.R. ... A310 (1991) 703
Karyotakis, Y., see Adeva, B. ... A309 (1991) 318
Kasai, S., see ZEUS Calorimeter Group ... A309 (1991) 101
Kase, M., see Masuda, K. ... A309 (1991) 489
Kasemann, M., see Atwood, W.B. ... A306 (1991) 446
Kashiwagi, T., see Doke, T. ... A302 (1991) 290
Kashiwagi, T., see Masuda, K. ... A309 (1991) 489
Kass, R., see Frautschi, M. ... A307 (1991) 52
Katano, R., see Fukumura, K. ... A301 (1991) 482
Katayama, I., see Noda, K. ... A303 (1991) 215
Katayama, T., see Tanabe, T. ... A307 (1991) 7
Kato, R., see Shibata, Y. ... A301 (1991) 161
Kato, S., K. Kobayashi, K. Maruyama, H. Okuno, O. Konno, T. Suda, T. Maki, H. Asami and T. Koizumi, A new type of liquid-^{3}He target system using small mechanical refrigerators ... A307 (1991) 213
Katoh, R., see Hasegawa, K. ... A310 (1991) 471
Katoh, T., see Kawade, K. ... A301 (1991) 594
Katori, K., see Tanaka, M. ... A302 (1991) 460
Katou, K., see Kawade, K. ... A301 (1991) 594
Katsouleas, T.C., see Aghamir, F. ... A304 (1991) 155
Katvars, S.G., see Allport, P.P. ... A310 (1991) 155
Kaufman, W.A., see Roser, T. ... A301 (1991) 42
Kawachi, K., see Kanai, T. ... A302 (1991) 158
Kawade, K., K. Katou, A. Osa, M. Shibata, H. Yamamoto, T. Katoh, T. Iida and A. Takahashi, Measurement of β^+-activity by detecting 511 keV annihilation γ-rays (*Letter to the Editor*) ... A301 (1991) 594
Kawaguchi, K., see Ikeda, H. ... A308 (1991) 596
Kawai, M., see Kawamura, Y. ... A304 (1991) 111
Kawakami, S., see Adarkar, H. ... A308 (1991) 574
Kawakubo, T., T. Ishida, E. Kadokura, Y. Ajima and T. Adachi, Fast data acquisition system of a non-destructive profile monitor for a synchrotron beam by using a microchannel plate with multi-anodes ... A302 (1991) 397
Kawakubo, T., H. Someya, S. Tazawa, S. Murasugi and Y. Arakida, How to decrease the rise time of a current from a thyratron housing ... A306 (1991) 426
Kawamura, Y., B.C. Lee, M. Kawai and K. Toyoda, Experimental studies on various characteristics of a waveguide mode free electron laser using cold relativistic electron beams ... A304 (1991) 111
Kawasaki, K., see Sugai, I. ... A303 (1991) 59
Kawasaki, S., see Shiho, M. ... A304 (1991) 141
Kawata, H., see Sakai, N. ... A303 (1991) 488
Kayser, J., see Wirth, H.L. ... A303 (1991) 106
Kazachevskaya, T.V., see Anevsky, S.I. ... A308 (1991) 165

Kazarnovsky, M.V., I.N. Kopeikin and S.V. Serezhnikov, Propagation of an internuclear hadron cascade at energies below 5 GeV . . . A301 (1991) 246
Kaznacheev, K.V., see Stankevich, V.G. . . . A308 (1991) 193
Keeler, R.K., see Astbury, A. . . . A305 (1991) 376
Kehne, D., see Wang, J.G. . . . A301 (1991) 19
Keilin, V.E., see Barkov, A.V. . . . A308 (1991) 70
Kekalo, I.B., see Tagabilev, G.Kh. . . . A308 (1991) 251
Kellie, J.D., see Anthony, I. . . . A301 (1991) 230
Kemmer, J., see Klein, P. . . . A305 (1991) 517
Kemmer, J., see Böhm, G. . . . A305 (1991) 587
Kemmer, J., see Vacchi, A. . . . A306 (1991) 187
Kemmerling, G., see Grässler, H. . . . A310 (1991) 535
Kenchian, G., see Procida Veissid, V.L.C. . . . A309 (1991) 222
Kennedy, E.J., G.T. Alley, C.L. Britton Jr., P.L. Skubic, B. Gray and A. Wu, Radiation effects on JFETS, MOSFETS, and bipolar transistors as related to SSC cicuit design . . . A307 (1991) 452
Kennett, T.J., see Bostock, I.J. . . . A302 (1991) 355
Kennett, T.J., see Moreh, R. . . . A309 (1991) 503
Kepinski, J.F., see Coc, A. . . . A305 (1991) 143
Kerek, A., see Kręciejewski, M. . . . A301 (1991) 424
Kernan, A., see Ellison, J. . . . A302 (1991) 227
Kerner, J.A., see Guttmann, G.D. . . . A305 (1991) 216
Keselbrener, M., S. Ruschin, B. Lissak and A. Gover, Numerical studies of resonators with on-axis holes in mirrors for FEL application . . . A304 (1991) 782
Kessler, M., see Bitter, T. . . . A309 (1991) 521
Kestemann, J., see Buytaert, J. . . . A310 (1991) 596
Keszthelyi-Lándori, S., I. Földvári, R. Voszka, Z. Fodor and Z. Seres, Decay time measurements on "pure" CsI scintillators prepared by different methods . . . A303 (1991) 374
Keters, M., see Wattecamps, E. . . . A309 (1991) 209
Ketikian, A.J., see Volkov, A.D. . . . A306 (1991) 278
Ketikjan, A.G., see Kalmar, H. . . . A307 (1991) 279
Kezerashvili, G.Ya. and A.N. Skrinsky, Method of the measurement of a supersmall beam size in electron–positron colliders by Compton scattering . . . A307 (1991) 179
Khabakhpashev, A.G., see Babichev, E.A. . . . A310 (1991) 449
Khaidukov, N.M., see Makhov, V.N. . . . A308 (1991) 205
Khan, R., see Adriani, O. . . . A302 (1991) 53
Kharitonov, A.D., see Artemiev, A.N. . . . A308 (1991) 459
Khomenko, B.A., see Alekseev, G.D. . . . A305 (1991) 344
Khovansky, N.N., see Alekseev, G.D. . . . A305 (1991) 344
Khromchenko, V.B., see Anevsky, S.I. . . . A308 (1991) 35
Khromchenko, V.B., see Anevsky, S.I. . . . A308 (1991) 165
Khvostova, V.P., S.V. Golovnya, V.B. Baryshev and K.V. Zolotarev, Platinoid identification in geological samples by the SRXFA technique for receiving genetic information . . . A308 (1991) 312
Khvostova, V.P., V.A. Trunova, V.B. Baryshev and K.V. Zolotarev, The SRXFA technique in analytical concentrates analysis . . . A308 (1991) 315
Kidrich, G., see Lund–Milano-[illegible]–Trieste Collaboration . . . A305 (1991) 320
Kiel, D.H. and W.B. Colson, Macroparticle model of the high-current, strong-field free electron laser . . . A304 (1991) 453
Kienzle, W., see UA1 Collaboration . . . A305 (1991) 331
Kiesewetter, J., K.-Th. Brinkmann, H. Freiesleben and H. Gassel, An ionization chamber of large solid angle with integrated parallel plate avalanche counter for identification of slow heavy ions . . . A309 (1991) 196
Kiewiet, H.H., see Schippers, J.M. . . . A310 (1991) 540
Kihm, T., see Feuerstack, M. . . . A310 (1991) 287
Kikas, A. and M. Elango, Monte Carlo simulation of the cross-luminescence excitation spectrum in a CsBr crystal . . . A308 (1991) 211
Kikuchi, J., see Doke, T. . . . A302 (1991) 290
Kikuchi, J., see Ichinose, H. . . . A305 (1991) 111
Kikuchi, J., see Masuda, K. . . . A309 (1991) 489
Kikuchi, M., Energy and tune difference between positrons and electrons due to an asymmetrical rf distribution . . . A301 (1991) 37
Kikuchi, T., see Yagishita, A. . . . A306 (1991) 578
Kikuta, S., see Ishikawa, T. . . . A308 (1991) 356
Kikuta, S., see Aristov, V.V. . . . A308 (1991) 413

Killian, K., see Adams, T. A306 (1991) 128
Kilvington, A.I., see Richardson, D.J. A308 (1991) 568
Kim, C., see Kim, K.-J. A304 (1991) 233
Kim, D.-H., see Holmes, R. A303 (1991) 226
Kim, H.J., see Shapira, D. A301 (1991) 76
Kim, J.I., see Böhm, G. A305 (1991) 587
Kim, K.-J. and M. Xie, Stability and performance of CDRL-FEL A304 (1991) 146
Kim, K.-J., M. Berz, S. Chattopadhyay, J. Edighoffer, R. Gough, C. Kim, A.H. Kung, W. Stein and M. Xie, Design overview of a highly stable infrared free electron laser at LBL A304 (1991) 233
Kim, K.-J., The evolution and limits of spectral bandwidth in free electron lasers A304 (1991) 458
Kim, K.-J., see Xie, M. A304 (1991) 792
Kim, K.-J., see Colson, W.B. A304 (1991) 822
Kimbell, B.L., see Golden, R.L. A306 (1991) 366
Kimel, I., see Elias, L.R. A304 (1991) 219
Kimmitt, M.F., see Ciocci, F. A304 (1991) 17
Kimmitt, M.F., see Price, E.J. A304 (1991) 133
Kimmitt, M.F., see Fisch, E.E. A304 (1991) 679
King, B.J., C.G. Arroyo, K.T. Bachmann, R.E. Blair, C. Foudas, W.C. Lefmann, W.C. Leung, S.R. Mishra, E. Oltman, P.Z. Quintas, S.A. Rabinowitz, F.J. Sciulli, W.G. Seligman, M.H. Shaevitz, F.S. Merritt, M.J. Oreglia, B.A. Schumm, R.H. Bernstein, F. Borcherding, H.E. Fisk, M.J. Lamm, W. Marsh, K.W.B. Merritt, H. Schellman, D.D. Yovanovitch, A. Bodek, H.S. Budd, P. de Barbaro, W.K. Sakumoto, P.H. Sandler and W.H. Smith, Measuring muon momenta with the CCFR neutrino detector A302 (1991) 254
King, N.S.P., see Morgan, G.L. A308 (1991) 544
Kink, R.A., see Stankevich, V.G. A308 (1991) 193
Kinkel, U., see Bitter, T. A309 (1991) 521
Kinnison, W.W., see Sailor, W.C. A303 (1991) 285
Kinoshita, K., see Bebek, C. A302 (1991) 261
Kinoshita, K., see Pinfold, J.L. A302 (1991) 434
Kireev, I.V., see Mikheeva, M.N. A308 (1991) 223
Kirichenko, V.V., see Artemiev, V.A. A303 (1991) 309
Kirk, A., see WA82 Collaboration A309 (1991) 401
Kirsten, T., see Plaga, R. A309 (1991) 560
Kishimoto, S., An avalanche photodiode detector for X-ray timing measurements (*Letter to the Editor*) A309 (1991) 603
Kishimoto, Y., see Shiho, M. A304 (1991) 141
Kishimoto, Y., H. Oda and M. Shiho, Origin of parasitic wave in a Raman-regime free electron laser A304 (1991) 632
Kislovskii, E.N., see Baryakhtar, V.G. A308 (1991) 291
Kislovskii, E.N., see Nemoshkalenko, V.V. A308 (1991) 294
Kislovskii, E.N., Yu.M. Litvinov, V.B. Molodkin, V.V. Nemoshkalenko, A.I. Nizkova, S.I. Olikhovskii, N.A. Hudik and M.V. Kovalchuk, Visualization of X-ray Fourier images of deformation fields for various types of defects in monocrystals A308 (1991) 297
Kitagawa, A., see Sato, Y. A310 (1991) 693
Kitamura, S., see ZEUS Calorimeter Group A309 (1991) 101
Kitora, M., see Sekita, H. A304 (1991) 137
Kiyanagi, Y., see Inoue, K. A309 (1991) 294
Kiziah, R.R. and J.R. Lowell, Experimental response functions spanning the gamma-ray energy range of 123.6 keV to 11.67 MeV and response matrix generation for bismuth germanate scintillation detecors A305 (1991) 129
Klages, H.O., see Finkbeiner, F. A306 (1991) 215
Klamra, W., see Szekely, G. A306 (1991) 540
Klanner, R., see ZEUS Calorimeter Group A309 (1991) 101
Kleev, A.I., see Wainstein, L.A. A308 (1991) 94
Kleeven, W.J.G.M., see Botman, J.I.M. A304 (1991) 192
Klein, A., see Backenstoss, G. A310 (1991) 518
Klein, P., P. Lechner, G. Lutz, K. Schuster, L. Strüder, J. Kemmer, U. Prechtel, T. Ziemann, B. Heinemann and R. Richter, Design and performance of semiconductor detectors with integrated amplification and charge storage capability A305 (1991) 517
Klein, S.R. and E. Hazen, A multiplexed 200 MSPS waveform digitizer with zero suppression for MACRO . . A309 (1991) 536
Klein, S.S., see Rijken, H.A. A310 (1991) 171
Kleinknecht, K., see Atwood, W.B. A306 (1991) 446
Klemm, J., see Folger, H. A303 (1991) 24
Klemt, E., see Bitter, T. A309 (1991) 521
Klepikov, N.P. and I.M. Ternov, Coherent synchrotron radiation of a bunch of particles A308 (1991) 113

Klimenko, M.N., see Artemiev, A.N. A308 (1991) 61
Klimentov, A., see Adriani, O. A302 (1991) 53
Klimov, A.I., see Abramov, A.A. A302 (1991) 529
Kline, R.C., see Frawley, A.D. A306 (1991) 512
Klinkenberg, E.D., see Zschech, E. A308 (1991) 255
Kloiber, T., see Stankevich, V.G. A308 (1991) 193
Knauf, K. and W. Vorbrugg, The response of a cylindrical proton recoil proportional counter to neutrons impinging perpendicularly to its axis A305 (1991) 419
Knauf, K., see Weise, K. A309 (1991) 287
Kneissl, U., see Frommhold, Th. A310 (1991) 657
Knight, S.C., see Bateman, J.E. A310 (1991) 354
Knöchel, A., see Engström, P. A302 (1991) 547
Knoll, M., see Berdoz, A.R. A307 (1991) 26
Knöppler, J., see Feuerstack, M. A310 (1991) 287
Knox-Seith, J.F., see Amir, A. A304 (1991) 12
Knudson, A.R., see Harihar, P. A302 (1991) 469
Knyazev, B.A., see Dolbnya, I.P. A308 (1991) 435
Knyazev, V.M., see Artemiev, V.A. A303 (1991) 309
Kobayashi, K., see Kato, S. A307 (1991) 213
Kobayashi, M., P. Carlson and S. Berglund, Gamma-rays and $e^{\pm}$ streaming backward from total-absorption EM calorimeters A302 (1991) 47
Kobayashi, M., M. Ishii, E.A. Krivandina, M.M. Litvinov, A.I. Peresypkin, Yu.D. Prokoshkin, V.I. Rykalin, B.P. Sobolev, K. Takamatsu and V.G. Vasil'chenko, Cerium fluoride, a highly radiation-resistive scintillator A302 (1991) 443
Kobayashi, M., S. Ishimoto, S. Sugimoto and S. Kobayashi, Transmittance and radiation resistivity of optical glues A305 (1991) 401
Kobayashi, M., K. Takamatsu, S. Ide, K. Mori, S. Sugimoto, H. Takaki, M. Yasa and M. Ishii, A beam test on a fast EM-calorimeter of gadolinium silicate, GSO(Ce) A306 (1991) 139
Kobayashi, S., see Kobayashi, M. A305 (1991) 401
Kobayashi, T., see Fukumura, K. A301 (1991) 482
Kobayashi, T., see Fukumura, K. A301 (1991) 485
Kobiki, H., see Ejiri, H. A302 (1991) 304
Koch, M., see Schefer, J. A310 (1991) 416
Kochocki, J., see Gress, J. A302 (1991) 368
Kochocki, J., see Lu, Y. A307 (1991) 425
Kochubey, D.I., see Tagabilev, G.Kh. A308 (1991) 251
Kockelmann, W., W. Schäfer, G. Will, J. Chazipetros, B. Dujka and W. Schuster, A charcoal-pumped ^{3}He cryostat for neutron diffraction A305 (1991) 435
Kodaira, M., see Tanabe, T. A307 (1991) 7
Koehler, P.E., H.A. O'Brien and J.C. Gursky, Radioactive targets for nuclear astrophysics research at LANSCE A303 (1991) 182
Koger, R., see Erme, E. A308 (1991) 336
Kohl, V., see Antoš, J. A302 (1991) 277
Kohno, T., see Sato, Y. A310 (1991) 693
Kohra, K. and T. Watanabe, Introductory remarks A303 (1991) 397
Koide, T., T. Shidara, M. Yuri, N. Kandaka, K. Yamaguchi and H. Fukutani, Elliptical-polarization analyses of synchrotron radiation in the 5–80-eV region with a reflection polarimeter A308 (1991) 635
Koizumi, T., see Kato, S. A307 (1991) 213
Kok, E., see Steijger, J. A310 (1991) 509
Kolachev, G.M., see Babichev, E.A. A310 (1991) 449
Kolanoski, H., see Cindro, V. A309 (1991) 411
Kollerov, E.P., see Anashin, V.V. A308 (1991) 50
Kollmar, A., see Alefeld, B. A306 (1991) 300
Kollmar, A., see Badurek, G. A309 (1991) 275
Kolokolnikov, Yu.M., see Barsukov, V.P. A308 (1991) 419
Kolonko, J., see Aghamir, F. A304 (1991) 155
Kolton, W., see Fréjus Collaboration A302 (1991) 406
Kolybaba, D., see Lolos, G.J. A309 (1991) 552
Komissarov, E.V., see Volkov, A.D. A306 (1991) 278
Komissarov, E.V., see Kalmar, H. A307 (1991) 279
Komoto, T., see Reffo, G. A307 (1991) 380

Kondo, M., see Tanaka, M. . . . A302 (1991) 460
Kondo, S., see Hajima, R. . . . A304 (1991) 230
Kondo, Y., see Shibata, Y. . . . A301 (1991) 161
Kondrashkina, E.A., see Stepanov, S.A. . . . A301 (1991) 350
Konev, I.V., see Anevsky, S.I. . . . A308 (1991) 165
Kong, G., J. Lucas and R.A. Stuart, Low-voltage ubitrons for industrial purposes . . . A304 (1991) 238
Kong, Y. and K.G. Lynn, Deconvolution of positron annihilation γ-ray energy spectra with the maximum entropy principle . . . A302 (1991) 145
König, A., see Van der Graaf, H. . . . A307 (1991) 220
Konno, O., see Kato, S. . . . A307 (1991) 213
Konopelko, A.K., see Aharonian, F.A. . . . A302 (1991) 522
Konstantinov, A., see Shank, J.T. . . . A309 (1991) 377
Kooijman, P., see ZEUS Calorimeter Group . . . A309 (1991) 101
Koori, N., see Nakayama, S. . . . A302 (1991) 472
Koori, N., A. Nohtomi, Y. Uozumi, T. Sakae and M. Matoba, On the mechanism of self-quenching streamer formation (*Letter to the Editor*) . . . A307 (1991) 581
Koos, I., see Biri, S. . . . A306 (1991) 56
Kopeikin, I.N., see Kazarnovsky, M.V. . . . A301 (1991) 246
Korbel, K., see Dąbrowski, W. . . . A301 (1991) 288
Korchuganov, V.N., see Anashin, V.V. . . . A308 (1991) 45
Korchuganov, V.N., see Anashin, V.V. . . . A308 (1991) 50
Korchuganov, V.N., G.N. Kulipanov, E.B. Levichev, S.V. Sukhanov, V.A. Ushakov and A.G. Valentinov, Five-pole superconducting wiggler for the dedicated SR source TNK . . . A308 (1991) 54
Korchuganov, V.N., see Erg, G.I. . . . A308 (1991) 57
Korjuk, Yu.A., see Alexandrov, A.A. . . . A303 (1991) 323
Korkmaz, E., see Berdoz, A.R. . . . A307 (1991) 26
Kornadt, O., see Adriani, O. . . . A302 (1991) 53
Korneev, Yu.P., see Buzulutskov, A.F. . . . A306 (1991) 177
Korolija, M., see Shapira, D. . . . A301 (1991) 76
Korschinek, G. and T. Henkelmann, Generation of extremely dense negative ion currents by means of a laser (*Letter to the Editor*) . . . A302 (1991) 376
Korytov, A.V., see Alekseev, G.D. . . . A305 (1991) 344
Koshcheev, S.V., see Devyatov, V.G. . . . A308 (1991) 225
Koshevoi, M.O., see Alexandrov, Yu.M. . . . A308 (1991) 340
Koshevoi, M.O., see Alexandrov, Yu.M. . . . A308 (1991) 343
Kossakowski, R., see Nastoll, H. . . . A306 (1991) 65
Kosyev, V.Ya., see Stankevich, V.G. . . . A308 (1991) 193
Kotelnikov, S.K., see Grishin, V.M. . . . A307 (1991) 273
Kotelnikov, S.K., see Grishin, V.M. . . . A309 (1991) 476
Kotlicki, A., see Le Gros, M. . . . A310 (1991) 224
Kotliński, B., see Backenstoss, G. . . . A310 (1991) 518
Kotov, S.A., see Artemiev, A.N. . . . A308 (1991) 61
Kotrbova, M., J. Hejduk, V.V. Malnev, V.N. Seleznev, S.V. Yagupov, N.V. Andronova, A.I. Chechin and A.Yu. Mikhailov, Growth of crystals for synchrotron radiation Mössbauer investigation . . . A308 (1991) 456
Kotsis, K.T., see Alexandropoulos, N.G. . . . A308 (1991) 282
Kotz, J., see Brendle, M. . . . A302 (1991) 342
Kötz, U., see ZEUS Calorimeter Group . . . A309 (1991) 101
Kourbanis, I., see Bromberg, C. . . . A307 (1991) 292
Koutsenko, V., see Adriani, O. . . . A302 (1991) 53
Kovacs, A., see Gäggeler, H.W. . . . A309 (1991) 201
Kovalchuk, M.V., G.N. Kulipanov, Yu.M. Litvinov, S.N. Mazurenko, S. Samsonov and V.I. Zhiltsov, Status of the research and development synchrotron radiation center Zelenograd . . . A308 (1991) 1
Kovalchuk, M.V., see Nikolaenko, A.M. . . . A308 (1991) 278
Kovalchuk, M.V., see Baryakhtar, V.G. . . . A308 (1991) 291
Kovalchuk, M.V., see Nemoshkalenko, V.V. . . . A308 (1991) 294
Kovalchuk, M.V., see Kislovskii, E.N. . . . A308 (1991) 297
Kowalski, S.B., see Morgan, G.L. . . . A308 (1991) 544
Kozarenko, E.N., see Denisov, A.G. . . . A310 (1991) 479
Kozhevnikov, I.V., see Alexandrov, Yu.M. . . . A308 (1991) 340
Kozhuharov, C., see Frommhold, Th. . . . A310 (1991) 657
Kozlov, V.A., see Britvich, G.I. . . . A308 (1991) 509

Kozlowski, T., see Ricken, L. . . . A305 (1991) 232
Kozodaeva, O.M., see Artemiev, V.A. . . . A303 (1991) 309
Krämer, M., see Hartmann, J. . . . A305 (1991) 366
Krämer, M., see ZEUS Calorimeter Group . . . A309 (1991) 101
Krammer, M., see Bacci, C. . . . A301 (1991) 445
Krammer, M., see UA1 Collaboration . . . A305 (1991) 331
Kraner, H.W., see Li, Z. . . . A308 (1991) 585
Krasberg, M., see Badgett, W. . . . A307 (1991) 231
Krasnokutsky, R.N., see Fedyakin, N.N. . . . A301 (1991) 121
Krasnokutsky, R.N., L.L. Kurchaninov, V.V. Tikhonov, N.N. Fedyakin and R.S. Shuvalov, Time-variant filters. Part II . . . A309 (1991) 339
Krause, K.-H., J. Sobolewski, D. Hauff, J.M. Henneberg, N. Wieloch-Laufenberg, J. Ahrens, H. Gimm, A. Zieger, B. Ziegler and P. Rullhusen, A tagging system for linearly polarized photons . . . A310 (1991) 577
Kravchenko, V.S., see Mazalov, L.N. . . . A308 (1991) 230
Krawczyk, F., see Dobberstein, M.P. . . . A306 (1991) 474
Kręciejewski, M., A. Chłopik, M. Moszyński, J. Szlachciak and A. Kerek, CPLEAR Collaboration, A fast charge integrating ADC for the CPLEAR experiment at CERN . . . A301 (1991) 424
Krebs, B., see ZEUS Calorimeter Group . . . A309 (1991) 101
Kreile, J., H.-D. Kurland, W. Seibel and A. Schweig, A new angle-resolving photoelectron spectrometer for photoionisation studies of free atoms and molecules using synchrotron radiation . . . A308 (1991) 621
Kriegseis, W., see Habermehl, H.-E. . . . A303 (1991) 370
Krinsky, S., see Ben-Zvi, I. . . . A304 (1991) 181
Krinsky, S., see Yu, L.H. . . . A304 (1991) 516
Krisch, M., A. Freund, G. Marot and L. Zhang, Study of dynamically bent crystals for X-ray focusing optics . . . A305 (1991) 208
Krisch, M., see Joksch, S. . . . A306 (1991) 386
Krisch, M., A. Freund, G. Marot and L. Zhang, Study of dynamically bent crystals for X-ray focusing optics . . . A308 (1991) 378
Krishna Kumar, P.T., Estimation of bounds for statistical and systematic uncertainties of the covariance matrix in relative neutron cross-section measurements . . . A309 (1991) 256
Krishnaswamy, M.R., see Adarkar, H. . . . A308 (1991) 574
Krivandina, E.A., see Kobayashi, M. . . . A302 (1991) 443
Krivandina, E.A., see Britvich, G.I. . . . A308 (1991) 509
Križan, P., see Starič, M. . . . A307 (1991) 145
Kröger, W., see ZEUS Calorimeter Group . . . A309 (1991) 101
Kroon, P., see Adams, T. . . . A306 (1991) 128
Kroupa, M.A., S.J. Freedman, P.H. Barker and S.M. Ferguson, A method for determining the branching ratio for the superallowed decay: $^{10}C(O^+, gs) \rightarrow {}^{10}B(O^+, 1.74\ MeV) + e^+ + \nu$ . . . A310 (1991) 649
Krüger, J., see ZEUS Calorimeter Group . . . A309 (1991) 101
Kruglyakov, E.P., M.V. Fedorchenko, A.L. Fedorov and N.I. Chkhalo, Multilayer Ti–Be interference structures for ultrasoft X-ray radiation prepared by pulsed laser sputtering . . . A308 (1991) 325
Krummenacher, F., Pixel detectors with local intelligence: an IC designer point of view . . . A305 (1991) 527
Krupa, R.J. and K. Kurzak, Simulation and evaluation of α-spectra obtained with semiconductor detectors . . . A307 (1991) 469
Krupin, S.V., see Artemiev, A.N. . . . A308 (1991) 459
Krylov, Yu.V., see Artemiev, A.N. . . . A308 (1991) 61
Krylov, Yu.V., see Artemiev, A.N. . . . A308 (1991) 77
Kuehler, J., see Ross, W. . . . A310 (1991) 493
Kuhlen, M., M. Moszynski, R. Stroynowski, E. Wicklund and B. Milliken, Timing properties of long scintillation counters based on scintillating fibers . . . A301 (1991) 223
Kühn, B., see Ableev, V.G. . . . A306 (1991) 73
Kuipers, J.P.M., see Andersen, E. . . . A301 (1991) 69
Kulichenko, A.V., see Golovkin, S.V. . . . A305 (1991) 385
Kulikov, M.V., see Ableev, V.G. . . . A306 (1991) 73
Kulinich, P.A., see Alekseev, G.D. . . . A305 (1991) 344
Kulipanov, G.N., Projects of SR sources including research and development for insertion devices in the USSR . . . A303 (1991) 435
Kulipanov, G.N., see Couprie, M.E. . . . A304 (1991) 47
Kulipanov, G.N., see Gavrilov, N.G. . . . A304 (1991) 63
Kulipanov, G.N., see Gavrilov, N.G. . . . A304 (1991) 228
Kulipanov, G.N., see Kovalchuk, M.V. . . . A308 (1991) 1
Kulipanov, G.N., see Couprie, M.-E. . . . A308 (1991) 39
Kulipanov, G.N., see Anashin, V.V. . . . A308 (1991) 45
Kulipanov, G.N., see Anashin, V.V. . . . A308 (1991) 50

Kulipanov, G.N., see Korchuganov, V.N. . . . A308 (1991) 54
Kulipanov, G.N., see Erg, G.I. . . . A308 (1991) 57
Kulipanov, G.N., see Veshcherevich, V.G. . . . A308 (1991) 102
Kulipanov, G.N., V.N. Litvinenko, A.S. Sokolov and N.A. Vinokurov, On the mutual coherence of spontaneous radiation from two undulators separated by an achromatic bend . . . A308 (1991) 106
Kulipanov, G.N., see Gavrilov, N.G. . . . A308 (1991) 109
Kulipanov, G.N., see Antonov, A.A. . . . A308 (1991) 442
Kulke, B., see Caplan, M. . . . A304 (1991) 200
Kumagai, H., Y. Yamada, N. Tajima, K. Nakano, F. Yatagai and T. Takahashi, Parallel-plate avalanche counter for dosimetry in the RIKEN ring cyclotron biology facility (*Letter to the Editor*) . . . A308 (1991) 649
Kumar, K.S., see Holmes, R. . . . A303 (1991) 226
Kumar, V., see Adriani, O. . . . A302 (1991) 53
Kung, A.H., see Kim, K.-J. . . . A304 (1991) 233
Kunin, A., see Adriani, O. . . . A302 (1991) 53
Kuper, E.A., see Anashin, V.V. . . . A308 (1991) 45
Kuper, E.A., see Fedotov, M.G. . . . A308 (1991) 367
Kuper, E.A., see Fedotov, M.G. . . . A308 (1991) 423
Kuper, E.A., see Fedotov, M.G. . . . A308 (1991) 427
Kuper, E.A., see Fedotov, M.G. . . . A308 (1991) 430
Kuptsov, I.V., see Gavrilov, N.G. . . . A304 (1991) 228
Kurakado, M., see Matsumura, A. . . . A309 (1991) 350
Kurbatov, V.S., see Volkov, A.D. . . . A306 (1991) 278
Kurbatov, V.S., see Kalmar, H. . . . A307 (1991) 279
Kurchaninov, L.L., see Fedyakin, N.N. . . . A301 (1991) 121
Kurchaninov, L.L., see Krasnokutsky, R.N. . . . A309 (1991) 339
Kurek, N.K., see Demyanov, G.V. . . . A308 (1991) 215
Kuriyama, M., Materials science with SR using X-ray imaging – spatial resolution/source size . . . A303 (1991) 503
Kurkin, G.Ya., see Gavrilov, N.G. . . . A304 (1991) 228
Kurkin, G.Ya., see Anashin, V.V. . . . A308 (1991) 45
Kurland, H.-D., see Kreile, J. . . . A308 (1991) 621
Kuruma, S., see Mima, K. . . . A304 (1991) 93
Kuruma, S., see Ohigashi, N. . . . A304 (1991) 476
Kuruma, S., K. Mima, K. Ohi, S. Nakai and C. Yamanaka, Simulation of higher-harmonics generation in a FEL . . . A304 (1991) 638
Kuruma, S., see Tsunawaki, Y. . . . A304 (1991) 753
Kurylo, S., see Chilingarov, A. . . . A310 (1991) 277
Kurylo, S.G., see Dementyev, E.N. . . . A308 (1991) 352
Kurylo, S.G., see Barsukov, V.P. . . . A308 (1991) 419
Kurz, R., see Heiderich, M. . . . A305 (1991) 423
Kurzak, K., see Krupa, R.J. . . . A307 (1991) 469
Kusev, S.V., M.A. Mokulskii and V.I. Raiko, Structure determinations of macromolecules using the "SIBERIA" synchrotron radiation source . . . A308 (1991) 464
Kushnirenko, A.E., see Golovkin, S.V. . . . A305 (1991) 385
Kushnirenko, A.E., see Denisov, A.G. . . . A310 (1991) 479
Kuss, C., see Hartmann, J. . . . A305 (1991) 366
Kusunose, M., see Saito, T. . . . A301 (1991) 568
Kutschera, W., see Berkovits, D. . . . A302 (1991) 379
Kutschera, W., see Scarlassara, F. . . . A309 (1991) 485
Kuusmann, I.L., see Stankevich, V.G. . . . A308 (1991) 193
Kuusmann, I.L., see Aleksandrov, Yu.M. . . . A308 (1991) 208
Kuze, M., see ZEUS Calorimeter Group . . . A309 (1991) 101
Kuzmin, A., see Balerna, A. . . . A308 (1991) 234
Kuzmin, A., see Balerna, A. . . . A308 (1991) 240
Kuzminych, V.S., see Anashin, V.V. . . . A308 (1991) 467
Kuzminykh, V.S., see Anashin, V.V. . . . A308 (1991) 45
Kuznetsov, A. and E. Vilt, Optical characteristics of the LIS-2 pulsed laboratory synchrotron . . . A308 (1991) 92
Kuznik, B., see Fréjus Collaboration . . . A302 (1991) 406
Kwakkel, E., see Steijger, J. . . . A310 (1991) 509
Kwan, J.W., see Chan, C.F. . . . A306 (1991) 112
Kwan, S., see Hoeneisen, B. . . . A302 (1991) 447
Kwan, S. and D.F. Anderson, A study of the CsI–TMAE photocathode . . . A309 (1991) 190

Kyle, G., see Garnett, R. . . . A309 (1991) 508
Kyle, G.S., see Backenstoss, G. . . . A310 (1991) 518

La Monaca, A., see Shah, J.S. . . . A308 (1991) 285
La Monaca, A., M. Barteri, E. Borghi, A. Congiu-Castellano, G. Cappuccio, M. Beltramini, B. Salvato and J.S. Shah, Application of the improved area detector for continuous small angle X-ray scattering using synchrotron radiation . . . A310 (1991) 403
Labanti, C., E. Caroli, E. Rossi and A. Spizzichino, Methods for optimizing the performances of position-sensitive CsI(Tl) scintillation bars with photodiode readout . . . A310 (1991) 327
Labedzki, J., see Grundey, T. . . . A306 (1991) 21
Labrouche, J., see Bottollier-Curtet, H. . . . A304 (1991) 197
Labrouche, J., see Bardy, J. . . . A304 (1991) 311
Labrouche, J., see Launspach, J. . . . A304 (1991) 368
Lacava, F., see UA1 Collaboration . . . A305 (1991) 331
Lachin, Yu.Yu., see Aghamir, F. . . . A304 (1991) 155
Ladrem, M., see Andersen, E. . . . A301 (1991) 69
Ladron de Guevara, P., see Andersen, E. . . . A301 (1991) 69
Lafferty, G.D., see Allison, J. . . . A310 (1991) 527
Laget, J.P., see Dei-Cas, R. . . . A304 (1991) 215
Laget, J.P., see Balleyguier, P. . . . A304 (1991) 308
Laget, J.P., see Bois, R. . . . A304 (1991) 315
Lagomarsino, V., G. Manuzio, A. Pozzo and G. Testera, Vacuum separation using thin carbon foils . . . A307 (1991) 309
Lajczok, M., see Adams, T. . . . A306 (1991) 128
Lalanne, D., see Fréjus Collaboration . . . A302 (1991) 406
Lalanne, D., see Dassie, D. . . . A309 (1991) 465
Lamanna, E., see WA84 Collaboration . . . A310 (1991) 485
Lamberty, A., see Pauwels, J. . . . A303 (1991) 133
Lamberty, A., see Eykens, R. . . . A303 (1991) 152
Lambrecht, M., see Ross, W. . . . A310 (1991) 493
Lambrecht, R.M., see Clem, R.G. . . . A303 (1991) 115
Lamhamdi, T., see Dassie, D. . . . A309 (1991) 465
Lamm, M.J., see King, B.J. . . . A302 (1991) 254
Lampton, M., see Siegmund, O.H.W. . . . A310 (1991) 311
Lancaster, C., see Dowell, D.H. . . . A304 (1991) 1
Lanceri, L., see Battaoitto, P. . . . A301 (1991) 265
Lanceri, L., see Bortolotto, C. . . . A306 (1991) 459
Lane, L.C., see Harrison, A. . . . A310 (1991) 220
Lange, A., see Cindro, V. . . . A309 (1991) 411
Laniece, P., see Charon, Y. . . . A310 (1991) 379
Lanius, K., see Akbari, H. . . . A302 (1991) 415
Lanza, A., see Antoniazzi, L. . . . A307 (1991) 312
Lanzanó, G., see Fonte, R. . . . A307 (1991) 80
Lapington, J.S., A.A. Breeveld, M.L. Edgar and M.W. Trow, A novel imaging readout with improved speed and resolution . . . A310 (1991) 299
Lapington, J.S., see Trow, M.W. . . . A310 (1991) 344
Laplanche, F., see Fréjus Collaboration . . . A302 (1991) 406
Laplanche, F., see Dassie, D. . . . A309 (1991) 465
Lapointe, C., see Cameron, J.M. . . . A305 (1991) 257
Lapointe, C., see Abegg, R. . . . A306 (1991) 432
Lapshin, E.N., see Demyanov, G.V. . . . A308 (1991) 215
Larson, D., see Elias, L.R. . . . A304 (1991) 219
Larsson, J., see Werin, S. . . . A304 (1991) 81
Larsson, S., see Engström, P. . . . A302 (1991) 547
Laspalles, C., see Balleyguier, P. . . . A304 (1991) 308
Laspalles, Cl., see Dei-Cas, R. . . . A304 (1991) 215
Lassalle, J.C., see WA82 Collaboration . . . A309 (1991) 401
Latham, P.E., see Bidwell, S.W. . . . A304 (1991) 187
Lau, K., J. Pyrlik, P. Roumeliotis and R. Weinstein, Effects of nitrogen contamination on the operation of limited streamer tubes (*Letter to the Editor*) . . . A306 (1991) 397
Laucks, M.L., see Dowell, D.H. . . . A304 (1991) 1

Laucks, M.L., D.H. Dowell, A.R. Lowrey, M. Bemes, A. Currie, P. Johnson, K. McCrary, J. Adamski, D. Pistoresi, D.R. Shoffstall, M. Bentz, R. Burns, R. Hudyma, K. Sun, W. Mower, S. Bender, J. Goldstein, A. Lumpkin, B. McVey, R. Tokar and D. Shemwell, Optical measurements on the Boeing free electron laser ring resonator experiment A304 (1991) 25
Laucks, M.L., see Dowell, D.H. A304 (1991) 336
Laucks, M.L., see Goldstein, J.C. A304 (1991) 622
Laundy, D., S. Cummings and P. Pattison, Characterisation of a source of X-ray synchrotron radiation A302 (1991) 553
Launspach, J., see Bottollier-Curtet, H. A304 (1991) 197
Launspach, J., see Bardy, J. A304 (1991) 311
Launspach, J., J.M. Angles, M. Angles, P. Anthouard, J. Bardy, C. Bonnafond, H. Bottollier-Curtet, A. Devin, P. Eyharts, P. Eyl, J. Gardelle, G. Germain, P. Grua, J. Labrouche, J. de Mascureau, P. Le Taillandier, W. Stadnikoff and M. Thevenot, High power induction linac for FEL applications at CESTA A304 (1991) 368
Laurec, J., see Massé, D. A309 (1991) 227
Laurent, P., see Barret, D. A307 (1991) 512
Laurenti, G., see Alvisi, C. A305 (1991) 30
Lauterjung, D., see Cindro, V. A309 (1991) 411
Lazar, N.H., H. Boehmer, S. Fornaca, B. Hauss, B. Quon, N. Roy, S. Talmadge, H. Thompson Jr. and G. Neil, High brightness injector for a high power superconducting rf FEL A304 (1991) 243
Le Coultre, P., see Hofer, H. A309 (1991) 422
Le Diberder, F., see Buon, J. A306 (1991) 93
Le Du, P., see Pinfold, J.L. A302 (1991) 434
Le Duff, J., see Bergeret, H. A301 (1991) 389
Le Gac, R., see Coc, A. A305 (1991) 143
Le Gros, M., G. Meagher, A. Kotlicki, B.G. Turrell and A.K. Drukier, The position sensitivity of a planar array of superheated superconductors A310 (1991) 224
Le Scornet, G., see Coc, A. A305 (1991) 143
Le Taillandier, P., see Bottollier-Curtet, H. A304 (1991) 197
Le Taillandier, P., see Bardy, J. A304 (1991) 311
Le Taillandier, P., see Launspach, J. A304 (1991) 368
Lebedev, V.A., see Artemiev, A.N. A308 (1991) 61
Leblanc, M., see Bendali, M. A310 (1991) 373
Leblanc, M., see Charon, Y. A310 (1991) 379
Leblond, B., see Bergeret, H. A301 (1991) 389
Leblond, B., see Bourdon, J.C. A304 (1991) 322
Leblond, B., see Septier, A. A304 (1991) 392
Leboutet, H., see Dei-Cas, R. A304 (1991) 215
Leboutet, H., see Aucouturier, J. A304 (1991) 305
Leboutet, H., see Balleyguier, P. A304 (1991) 308
Leccia, F., see Dassie, D. A309 (1991) 465
Lechner, P., see Klein, P. A305 (1991) 517
Lechtenberg, F., see Engström, P. A302 (1991) 547
Leclaire, B., see Atwood, W.B. A306 (1991) 446
Lecomte, P., see Adriani, O. A302 (1991) 53
LeCoultre, P., see Adriani, O. A302 (1991) 53
Lederman, L., see Charpak, G. A306 (1991) 439
Lee, B.C., see Kawamura, Y. A304 (1991) 111
Lee, D.-W., see Sekimoto, H. A302 (1991) 150
Lee, S.M., see Mizota, T. A305 (1991) 125
Lee, S.Y., Snakes and spin rotators for high energy accelerators A306 (1991) 1
Lee, S.Y. and L.G. Ratner, Feasibility of a polarized deuteron beam in the AGS and RHIC A306 (1991) 51
Lee-Franzini, J., see Schamberger, R.D. A309 (1991) 450
Leedom, I., see Akbari, H. A302 (1991) 415
Lees, J.E., see Fraser, G.W. A306 (1991) 247
Lees, J.E., see Fraser, G.W. A310 (1991) 292
Lefebvre, M., see RD3 Collaboration A309 (1991) 438
Leflour, T., see RD3 Collaboration A309 (1991) 438
Lefmann, W.C., see King, B.J. A302 (1991) 254
Léger, A., see Béné, P. A306 (1991) 150
Legros, P., see WA82 Collaboration A309 (1991) 401
Lehmann, M., D. Hilscher, D. Husson, G. Ingold, U. Jahnke, H. Rossner and W.P. Zank, A new method to measure prescission neutrons in heavy-ion induced fission A309 (1991) 530

Lehmann, M.S., see Wilkinson, C. A310 (1991) 411
Lehraus, I., see Atwood, W.B. A306 (1991) 446
Leigh, J.R., see Wei, J.X. A306 (1991) 557
Leinonen, K., see Hietanen, I. A301 (1991) 116
Leinonen, K., see Hietanen, I. A305 (1991) 173
Leinonen, K., see Hietanen, I. A310 (1991) 671
Leinonen, K., see Hietanen, I. A310 (1991) 677
Leleux, P., see Lipnik, P. A305 (1991) 158
Lemenovski, D., see Charpak, G. A310 (1991) 128
Lemieux, S.K., see Crosson, E.R. A310 (1991) 703
Lemonne, J., see Buytaert, J. A310 (1991) 596
Lendermann, P., see Bähr, J. A306 (1991) 169
Lengeler, B., see Storb, Ch. A306 (1991) 544
Lennert, P., see Feuerstack, M. A310 (1991) 287
Leonard, R.H., see Thomas, G.E. A303 (1991) 162
Lepeltier, V., see Buon, J. A306 (1991) 93
Leprêtre, A., see Bourgeois, P. A301 (1991) 150
Leprêtre, A., see Couprie, M.E. A304 (1991) 710
Leroy, C., see Borchi, E. A301 (1991) 215
Leslie, J., see Sonnenblick, R. A310 (1991) 189
Lestone, J.P., see Wei, J.X. A306 (1991) 557
Letokhov, V.S., see Alkhazov, G.D. A306 (1991) 400
Lettry, J., see Adriani, O. A302 (1991) 53
Leung, W.C., see King, B.J. A302 (1991) 254
Leutz, H., see D'Ambrosio, C. A306 (1991) 549
Leutz, H., see D'Ambrosio, C. A307 (1991) 430
Levi Sandri, P., see Mazzaschi, L. A305 (1991) 391
Levichev, E.B., see Anashin, V.V. A308 (1991) 45
Levichev, E.B., see Korchuganov, V.N. A308 (1991) 54
Levichev, E.B., see Erg, G.I. A308 (1991) 57
Levinsky, N., see Clayton, J. A305 (1991) 116
Levman, G., see ZEUS Calorimeter Group A309 (1991) 101
Levush, B., see Bidwell, S.W. A304 (1991) 187
Levy, C.D.P., see Buchmann, L. A306 (1991) 413
Lewis, A.J., see Raymond, D.M. A310 (1991) 552
Lewis, D.F., see McLaughlin, W.L. A302 (1991) 165
Lewis, R., J.S. Worgan, N.S. Fore, F. d'Annunzio, C. Hall and B. Parker, An ultra-high counting rate 2D proportional counter for synchrotron radiation A310 (1991) 70
Lewis, R.A., see Bartoszek, L. A301 (1991) 47
Lewis, R.A., see Hall, C.J. A310 (1991) 215
Leyendecker, P., see Barbosa, A.F. A302 (1991) 489
Leyvraz, F., see Antillón, A. A305 (1991) 247
Li, C., see Bylsma, B.G. A305 (1991) 354
Li, H.T., see Adriani, O. A302 (1991) 53
Li, H.T., see Hofer, H. A309 (1991) 422
Li, X.G., see Adriani, O. A302 (1991) 53
Li, X.G., see Hofer, H. A309 (1991) 422
Li, Y., see Astbury, A. A305 (1991) 376
Li, Y., On Rose's expression of magnetic vector potential and variational function for a charged particle optical system A307 (1991) 151
Li, Z., W. Chen and H.W. Kraner, Effects of fast neutron radiation on the electrical properties of silicon detectors A308 (1991) 585
Li Chengze, see Xie Jialin A304 (1991) 770
Li Yonggui, see Xie Jialin A304 (1991) 770
Liaud, P., see Nastoll, H. A306 (1991) 65
Lider, V.V., Double crystal dispersion monochromator for X-ray plane wave diffraction A308 (1991) 407
Liello, F., see Bartoli, B. A302 (1991) 515
Liello, F., see Cresti, M. A306 (1991) 563
Liguori, G., see Antoniazzi, L. A307 (1991) 312
Liko, D., see Andersen, E. A301 (1991) 69
Liljeby, L., see Tyrroff, H. A301 (1991) 591

Lin, Y.B., see Adriani, O. . . . A302 (1991) 53
Lin Yuzheng, see Zhao Zhentang . . . A307 (1991) 132
Linck, I., see Dassie, D. . . . A309 (1991) 465
Lindblad, T., see Francke, T. . . . A307 (1991) 47
Lindblad, Th., see Szekely, G. . . . A306 (1991) 540
Lindblom, P., T. Olsson and O. Solin, Laser-enhanced proportional gas scintillations . . . A302 (1991) 113
Linde, F., see Adeva, B. . . . A309 (1991) 318
Lindenberg, T., see ZEUS Calorimeter Group . . . A309 (1991) 101
Lindgren, J., see Hietanen, I. . . . A301 (1991) 116
Lindgren, J., see Hietanen, I. . . . A305 (1991) 173
Lindgren, J. and T. Tuuva, Cluster-finding algorithm suitable for a silicon strip detector readout chip . . . A307 (1991) 448
Lindgren, J., see Hubbeling, L. . . . A310 (1991) 197
Lindgren, J., see Hietanen, I. . . . A310 (1991) 671
Lindgren, J., see Hietanen, I. . . . A310 (1991) 677
Lindgren, M., see UA1 Collaboration . . . A305 (1991) 331
Lindroos, M. and Ö. Skeppstedt, A position sensitive photon detector used as a charged particle detector . . . A306 (1991) 225
Lindsey, C.S. and B. Denby, Primary vertex finding in proton–antiproton events with a neural network simulation . . . A302 (1991) 217
Lindstrom, E.R., see Debenham, P.H. . . . A304 (1991) 208
Ling, T.Y., see Bylsma, B.G. . . . A305 (1991) 354
Linnhöfer, D., see Angelov, T. . . . A306 (1991) 536
Linssen, L., see Acosta, D. . . . A302 (1991) 36
Linssen, L., see Acosta, D. . . . A305 (1991) 55
Linssen, L., see Acosta, D. . . . A308 (1991) 481
Linssen, L., see Acosta, D. . . . A309 (1991) 143
Lintern, A.L., see Acton, P. . . . A305 (1991) 504
Lipilin, A.V., see Artemiev, A.N. . . . A308 (1991) 61
Lipnik, P., A. Bol, J.F. Gilot, P. Leleux and P. Macq, A low-cost plastic detector for energetic neutrons . . . A305 (1991) 158
Liposky, P.J., see Debenham, P.H. . . . A304 (1991) 208
Lippert, W., see Bitter, T. . . . A309 (1991) 521
Lirakis, C., see Bromberg, C. . . . A307 (1991) 292
Lisowski, B., see Alvisi, C. . . . A305 (1991) 30
Lisowski, P.W., see Morgan, G.L. . . . A308 (1991) 544
Lissak, B., see Keselbrener, M. . . . A304 (1991) 782
Litke, A. and M. Meister, The retinal readout array . . . A310 (1991) 389
Litvinenko, V.N., Storage ring FELs and the prospects . . . A304 (1991) 40
Litvinenko, V.N., see Couprie, M.E. . . . A304 (1991) 47
Litvinenko, V.N., see Gavrilov, N.G. . . . A304 (1991) 63
Litvinenko, V.N. and N.A. Vinokurov, Lasing spectrum and temporal structure in storage ring FELs: theory and experiment . . . A304 (1991) 66
Litvinenko, V.N., High gain distributed optical klystron . . . A304 (1991) 463
Litvinenko, V.N., see Colson, W.B. . . . A304 (1991) 822
Litvinenko, V.N., see Couprie, M.-E. . . . A308 (1991) 39
Litvinenko, V.N., see Kulipanov, G.N. . . . A308 (1991) 106
Litvinenko, V.N., see Gavrilov, N.G. . . . A308 (1991) 109
Litvinov, M.M., see Kobayashi, M. . . . A302 (1991) 443
Litvinov, Yu.M., see Kovalchuk, M.V. . . . A308 (1991) 1
Litvinov, Yu.M., see Drobyazko, I.B. . . . A308 (1991) 243
Litvinov, Yu.M., see Baryakhtar, V.G. . . . A308 (1991) 291
Litvinov, Yu.M., see Nemoshkalenko, V.V. . . . A308 (1991) 294
Litvinov, Yu.M., see Kislovskii, E.N. . . . A308 (1991) 297
Litvinov, Yu.M., see Mikhailov, M.A. . . . A308 (1991) 301
Litvinov, Yu.M., see Sheremetyev, I.A. . . . A308 (1991) 447
Litvinov, Yu.M., see Sheremetyev, I.A. . . . A308 (1991) 451
Liu, C., see Yang, T.L. . . . A304 (1991) 280
Liu, H., Simulation studies on back bombardment of electrons in rf thermionic guns . . . A302 (1991) 535
Liu, H., Simulation of an rf thermionic gun . . . A304 (1991) 371
Liu Jian, see Zheng Zheng . . . A301 (1991) 337
Liu Maosan, see Zeng Jiyang . . . A308 (1991) 616
Liu Naiquan, see Zhao Zhentang . . . A307 (1991) 132
Liu Shaoyi, see Xu Chaoyin . . . A308 (1991) 645

Livan, M., see Acosta, D. . . . A302 (1991) 36
Livan, M., see Acosta, D. . . . A305 (1991) 55
Livan, M., see Acosta, D. . . . A308 (1991) 481
Livan, M., see Acosta, D. . . . A309 (1991) 143
Ljunggren, K. and S.-E. Strand, Imaging detector for static and dynamic studies in biological samples A310 (1991) 475
Lleres, A., see Chambon, B. . . . A307 (1991) 333
Lleres, A., see Désesquelles, P. . . . A307 (1991) 366
Lobkowicz, F., see Bromberg, C. . . . A307 (1991) 292
Loebinger, F.K., see Allison, J. . . . A310 (1991) 527
Lofstedt, B., see Atwood, W.B. . . . A306 (1991) 446
Lohse, T., see Atwood, W.B. . . . A306 (1991) 446
Lokajiček, M., see Alekseev, G.D. . . . A305 (1991) 344
Lőkös, S., see Baksay, L. . . . A310 (1991) 607
Lolos, G.J., G.M. Huber, B. Ramadan, K. Wolbaum and D. Kolybaba, An improved amplification resistor chain for photomultiplier tubes A309 (1991) 552
Longo, M.J., see Antonuk, L.E. . . . A310 (1991) 460
Longoni, A., see Vacchi, A. . . . A306 (1991) 187
Longuemare, C., see Fréjus Collaboration A302 (1991) 406
Longuemare, C., see Dassie, D. . . . A309 (1991) 465
Lopez, E., see Martoff, C.J. . . . A301 (1991) 376
Lopez, T., see Simon-Gillo, J. . . . A309 (1991) 427
Lopez-Ponte, S., see Andersen, E. . . . A301 (1991) 69
Lopiano, D., see Garnett, R. . . . A309 (1991) 508
Lorazo, B., see Pinfold, J.L. . . . A302 (1991) 434
Loukas, D., see Dracos, M. . . . A302 (1991) 241
Lounis, A., see Hietanen, I. . . . A305 (1991) 173
Lounis, A., see Hubbeling, L. . . . A310 (1991) 197
Lounis, A., see Hietanen, I. . . . A310 (1991) 677
Lourie, R.W., S.P. Van Verst, J.H. Mitchell, D.H. Barkhuff and T.P. Welch, A fast small-angle rejection system for focal plane polarimeters A306 (1991) 83
Love, D.J.G., Compacting high spin γ coincidence data A302 (1991) 143
Lovelock, D.M.J., see Schamberger, R.D. . . . A309 (1991) 450
Lovhoiden, G., see Andersen, E. . . . A301 (1991) 69
Lowell, J.R., see Kiziah, R.R. . . . A305 (1991) 129
Lown, R.R., see Morgan, G.L. . . . A308 (1991) 544
Lowrey, A.R., see Dowell, D.H. . . . A304 (1991) 1
Lowrey, A.R., see Laucks, M.L. . . . A304 (1991) 25
Lowrey, A.R., see Dowell, D.H. . . . A304 (1991) 336
Lowrey, A.R., see Goldstein, J.C. . . . A304 (1991) 622
Lozowski, W.R. and J.D. Hudson, Preparation of carbon micro-ribbon targets and open-edged stripper foils for the IUCF cooler ring A303 (1991) 34
Lu, L.-J. and J.-Y. Chen, Discussion and improvement of the SX-700 beamline A309 (1991) 581
Lu, Y., see Gress, J. . . . A302 (1991) 368
Lu, Y., T. Markiewicz, J. Gress, J. Kochocki and J. Poirier, A multiprocessor controlled data acquisition system A307 (1991) 425
Lu, Y.S., see Adriani, O. . . . A302 (1991) 53
Lu, Y.S., see Hofer, H. . . . A309 (1991) 422
Lu, Zaitong, see Wang, M.C. . . . A304 (1991) 116
Lubelsmeyer, K., see Adriani, O. . . . A302 (1991) 53
Lubimov, V.A., see Artemiev, V.A. . . . A303 (1991) 309
Lucas, A.D., see Allport, P.P. . . . A310 (1991) 155
Lucas, J., see Kong, G. . . . A304 (1991) 238
Lucchesi, D., see WA84 Collaboration A310 (1991) 485
Lucherini, V., see Mazzaschi, L. . . . A305 (1991) 391
Ludmirsky, E.A., see Asseev, A.A. . . . A309 (1991) 1
Ludwig, E.J., see Mooney, T.M. . . . A307 (1991) 185
Ludwig, G., see Armijo, V. . . . A303 (1991) 298
Lueke, D., see Atwood, W.B. . . . A306 (1991) 446
Lueking, L., see Errede, D. . . . A309 (1991) 386
Lugol, J.C., see Fanet, H. . . . A301 (1991) 295
Luhmann, N., see Caplan, M. . . . A304 (1991) 200

Luhmann, N.C., see Aghamir, F. A304 (1991) 155
Lukens, P., see Bromberg, C. A307 (1991) 292
Luksys, M., see Cresti, M. A306 (1991) 563
Lumpkin, A., see Laucks, M.L. A304 (1991) 25
Lumpkin, A.H., see Dowell, D.H. A304 (1991) 1
Lumpkin, A.H., The next generation of rf FEL (free electron laser) diagnostics: synchroscan and dual-sweep streak camera techniques A304 (1991) 31
Lumpkin, A.H., see Feldman, D.W. A304 (1991) 224
Lumpkin, A.H., see Dowell, D.H. A304 (1991) 336
Lumpkin, A.H., B.E. Carlsten and R.B. Feldman, First measurements of electron-beam transit times and micropulse elongation in a photoelectric injector at the high-brightness accelerator FEL (HIBAF) A304 (1991) 374
Lumpkin, A.H., R.B. Feldman, B.E. Carlsten, D.W. Feldman, R.L. Sheffield, W.E. Stein, W.J. Johnson, L.E. Thode, S.C. Bender and G.E. Busch, Initial observations of high-charge, low-emittance electron beams at HIBAF A304 (1991) 379
Lumpkin, A.H., see Carlsten, B.E. A304 (1991) 587
Lumpkin, A.H., see Colson, W.B. A304 (1991) 822
Lund-Jensen, B., see Szekely, G. A306 (1991) 540
Lund–Milano–Torino–Trieste Collaboration, S. Almehed, F. Bianchi, J. Bjarne, W. Bonivento, H. Carling, R. Cirio, M.P. Clara, N. Demaria, A. De Min, P. Folegati, D. Gamba, A. Hakansson, G. Jarlskog, G. Kidrich, E. Menichetti, U. Mjornmark, P. Negri, P. Poropat, G. Rinaudo, A. Romero, M. Sessa, P.P. Trapani and E. Vallazza, A silicon–tungsten electromagnetic calorimeter for LEP A305 (1991) 320
Lusiani, A., see Atwood, W.B. A306 (1991) 446
Lusis, A., see Balerna, A. A308 (1991) 234
Lusis, A., see Balerna, A. A308 (1991) 240
Lutz, G., see Klein, P. A305 (1991) 517
Lutz, G., Correlated noise in silicon strip detector readout A309 (1991) 545
Lyakh, V.V., V.P. Naz'mov, E.M. Trakhtenberg and B.K. Bublik, Project of a station for gaseous-phase studies within 17 to 106 nm at VEPP-2M A308 (1991) 327
Lyapunov, G.M., see Gorin, A.M. A310 (1991) 251
Lynn, K.G., see Kong, Y. A302 (1991) 145
Lysov, B.A., O.F. Dorofeyev and I.M. Ternov, On the manifold of exact solutions of the problem of bosonization of a pair of 2D-electrons in a quantizing magnetic field A308 (1991) 115

Mac Gregor, M.H., see Reffo, G. A307 (1991) 380
Macbeth, A.A., see Allison, J. A310 (1991) 527
Maccarrone, G., see Alvisi, C. A305 (1991) 30
Macdermott, M., see Akbari, H. A302 (1991) 415
Machida, S., Space-charge effects in low-energy proton synchrotrons A309 (1991) 43
Macii, R., see Borchi, E. A301 (1991) 215
MacNaughton, J., see Andersen, E. A301 (1991) 69
MacPhail, J.D., see McKee, B.T.A. A310 (1991) 545
Macq, P., see Lipnik, P. A305 (1991) 158
Madey, J.M.J., see McKee, C.B. A304 (1991) 386
Madsen, M.M., see Budtz-Jørgensen, C. A310 (1991) 82
Maebara, S., see Shiho, M. A304 (1991) 141
Maeda, H., see Shiho, M. A304 (1991) 141
Maeshima, K., see Frautschi, M. A307 (1991) 52
Magahiz, R., see Baksay, L. A310 (1991) 607
Maggiolo, S., see Ricco, G. A307 (1991) 374
Magorrian, B.G., see Allinson, N.M. A310 (1991) 267
Maier, H.J., High vacuum sputter deposition of nuclear accelerator targets A303 (1991) 172
Maier, H.J., see Stephan, K.-H. A303 (1991) 196
Maier, M.R., see Vander Molen, A. A307 (1991) 116
Maier-Komor, P., see Dollinger, G. A303 (1991) 50
Maier-Komor, P., see Dollinger, G. A303 (1991) 79
Maier-Komor, P., G. Dollinger and E. Hammann, Thickness calibration of carbon foils A303 (1991) 88
Maier-Komor, P., see Thomas, G.E. A303 (1991) 162
Maier-Komor, P. and G. Dollinger, Progress in target technology using a pulsed laser beam for physical vapor deposition A303 (1991) 168
Maio, A., see Acosta, D. A302 (1991) 36
Maio, A., see Acosta, D. A305 (1991) 55

Maio, A., see Acosta, D. . . . A308 (1991) 481
Maio, A., see Acosta, D. . . . A309 (1991) 143
Maiorov, A.Yu., see Vorobyov, A.A. . . . A301 (1991) 167
Maisheev, V.A., see Asseev, A.A. . . . A309 (1991) 1
Majewska, A.M., see Bartoszek, L. . . . A301 (1991) 47
Majewski, S., see Breskin, A. . . . A310 (1991) 57
Majni, G., see Allegretti, F. . . . A302 (1991) 455
Makhov, V.N., Investigations of fast luminescence in ionic crystals under pulsed synchrotron radiation excitation at the S-60 electron synchrotron . . . A308 (1991) 187
Makhov, V.N. and N.M. Khaidukov, Cross-luminescence peculiarities of complex KF-based fluorides . . . A308 (1991) 205
Makhov, V.N., see Aleksandrov, Yu.M. . . . A308 (1991) 208
Maki, T., see Kato, S. . . . A307 (1991) 213
Makita, T., see Fukumura, K. . . . A301 (1991) 485
Makowski, M.A., see Sessler, A.M. . . . A306 (1991) 592
Malaguti, G., see Bird, A.J. . . . A310 (1991) 323
Malaguti, G., E. Caroli, A.J. Dean, G. Di Cocco and B.M. Swinyard, Monte Carlo simulation of a multiple CsI bar detector for gamma-ray astronomy . . . A310 (1991) 337
Malamud, G., see Vartsky, D. . . . A301 (1991) 96
Malamud, G., A. Breskin and R. Chechik, A systematic study of primary ionization cluster counting at low gas pressures . . . A307 (1991) 83
Malamud, G., see Breskin, A. . . . A310 (1991) 57
Malatesta, M., see Bassini, R. . . . A305 (1991) 449
Malchow, R.L., see Frautschi, M. . . . A307 (1991) 52
Malferrari, L., see WA82 Collaboration . . . A309 (1991) 401
Malgrange, C., see Elleaume, P. . . . A308 (1991) 382
Malgrange, C., C. Carvalho, L. Braicovich and J. Goulon, Transfer of circular polarization in Bragg crystal X-ray monochromators . . . A308 (1991) 390
Malhotra, P.K., see Adriani, O. . . . A302 (1991) 53
Malinin, A., see Adriani, O. . . . A302 (1991) 53
Malnev, V.V., see Kotrbova, M. . . . A308 (1991) 456
Malvezzi, S., see Bellini, G. . . . A305 (1991) 395
Mampe, W., see Richardson, D.J. . . . A308 (1991) 568
Manabe, A., see Nagasaka, Y. . . . A301 (1991) 109
Mandelkern, M.A., see Bartoszek, L. . . . A301 (1991) 47
Mandelli, L., see RD3 Collaboration . . . A309 (1991) 438
Mane, S.R. and W.T. Weng, Particle amplitude growth due to single or repetitive resonance crossing . . . A306 (1991) 9
Manente, G., see Pengo, R. . . . A303 (1991) 146
Manfredi, P.F., see Bellini, G. . . . A305 (1991) 395
Mani, S., see Bromberg, C. . . . A307 (1991) 292
Manintveld, P., see van Amersfoort, P.W. . . . A304 (1991) 163
Mank, R.H., see Besch, H.J. . . . A310 (1991) 446
Mannocchi, G., see Bilokon, H. . . . A303 (1991) 381
Manoukian-Bertrand, C., see Borchi, E. . . . A301 (1991) 215
Mansour, J., see Bromberg, C. . . . A307 (1991) 292
Mantsch, P., see Errede, D. . . . A309 (1991) 386
Manuzio, G., see Lagomarsino, V. . . . A307 (1991) 309
Mao Chensheng, see Xie Jialin . . . A304 (1991) 770
Mapelli, L., see Acosta, D. . . . A302 (1991) 36
Mapelli, L., see Acosta, D. . . . A305 (1991) 55
Mapelli, L., see Acosta, D. . . . A308 (1991) 481
Mapelli, L., see Acosta, D. . . . A309 (1991) 143
Marcello, S., see Bonazzola, G.C. . . . A306 (1991) 305
Marchand, D., see UA1 Collaboration . . . A305 (1991) 331
Marchant, J., see Bross, A.D. . . . A307 (1991) 35
Marchionni, A., see Adriani, O. . . . A302 (1991) 53
Maréchal, X., see Elleaume, P. . . . A308 (1991) 382
Marella, A.B., see Debenham, P.H. . . . A304 (1991) 208
Mares, V., G. Schraube and H. Schraube, Calculated neutron response of a Bonner sphere spectrometer with ^{3}He counter . . . A307 (1991) 398
Margotti, A., see Alvisi, C. . . . A305 (1991) 30
Marilleau, J., see Adolf, A. . . . A304 (1991) 297

Marin, C.P., see RD3 Collaboration A309 (1991) 438
Mariotti, M., see Bartoli, B. A302 (1991) 515
Mariotti, M., see Cresti, M. A306 (1991) 563
Markiewicz, T., see Lu, Y. A307 (1991) 425
Marmouget, J.G., see Dei-Cas, R. A304 (1991) 215
Marmouget, J.G., see Binet, A. A304 (1991) 707
Marot, G., see Krisch, M. A305 (1991) 208
Marot, G., see Joksch, S. A306 (1991) 386
Marot, G., see Krisch, M. A308 (1991) 378
Marot, G., see Elleaume, P. A308 (1991) 382
Marques, J.L., see Bartoszek, L. A301 (1991) 47
Marquina, M.A., see Bacci, C. A301 (1991) 445
Marrocchesi, P.S., see Atwood, W.B. A306 (1991) 446
Marsden, P.K., see Suckling, J. A310 (1991) 465
Marsh, W., see King, B.J. A302 (1991) 254
Marshall, T.C., see Tanabe, T. A304 (1991) 77
Marshall, T.C., see Bhattacharjee, A. A304 (1991) 99
Marshall, T.C., A. Bhattacharjee, S.Y. Cai, Y.P. Chou and I. Wernick, Inverse FEL accelerator: experiment and theory A304 (1991) 683
Martelloti, G., see WA84 Collaboration A310 (1991) 485
Märten, H., Correction of experimental fission neutron spectra for fragment detection anisotropy (*Letter to the Editor*) A302 (1991) 390
Martin, B., see Angelov, T. A306 (1991) 536
Martin, B., see Bendali, M. A310 (1991) 373
Martin, J., see Bourgeois, P. A301 (1991) 150
Martin, J., see Audit, G. A301 (1991) 473
Martin, J., see Couprie, M.E. A304 (1991) 710
Martin, J., see ZEUS Calorimeter Group A309 (1991) 101
Martin, M., see Iżycki, M. A310 (1991) 98
Martin-Casallo, M.T., see Grau Carles, A. A307 (1991) 484
Martinelli, R., see UA1 Collaboration A305 (1991) 331
Martinengo, P., see Francke, T. A307 (1991) 47
Martinengo, P., see WA82 Collaboration A309 (1991) 401
Martinengo, P., see Francke, T. A310 (1991) 146
Martinson, I., see Ausmees, A. A308 (1991) 219
Martoff, C.J., E. Kaczanowicz, B.J. Neuhauser, E. Lopez, Y. Zhang and F.P. Ziemba, Operation of a high-purity silicon diode alpha particle detector at 1.4 K (*Letter to the Editor*) A301 (1991) 376
Martynov, A.V., see Abramov, A.A. A302 (1991) 529
Maruyama, K., see Kato, S. A307 (1991) 213
Marx, M., see Adams, T. A306 (1991) 128
Mashiko, K., see Ito, Y. A305 (1991) 269
Masoli, F., see Calabrese, R. A309 (1991) 21
Mason, L., see Adams, T. A306 (1991) 128
Mason, P., see Grässler, H. A310 (1991) 535
Massa, F., see Iori, M. A306 (1991) 159
Massa, I., see Bonazzola, G.C. A306 (1991) 305
Massai, M.M., see Cresti, M. A306 (1991) 563
Massam, T., see Alvisi, C. A305 (1991) 30
Massé, D., A. Adam and J. Laurec, A Ge–NaI(Tl) spectrometer with Compton suppression and gamma coincidence counting. Application to ^{189}Ir and ^{101}Rh activity measurements A309 (1991) 227
Masseron, D., see Dei-Cas, R. A304 (1991) 215
Masseron, D., see Bois, R. A304 (1991) 315
Massimo Brancaccio, F.M., see Golden, R.L. A306 (1991) 366
Masson, S., see Grässler, H. A310 (1991) 535
Mastop, W.J., see van Amersfoort, P.W. A304 (1991) 163
Mastrapasqua, M., see Ripamonti, G. A310 (1991) 184
Mastrippolito, R., see Bendali, M. A310 (1991) 373
Mastrippolito, R., see Charon, Y. A310 (1991) 379
Masuda, K., see Doke, T. A302 (1991) 290
Masuda, K., see Ichinose, H. A305 (1991) 111

Masuda, K., E. Aprile, H.L. Ding, T. Doke, S.S. Gau, M.P.J. Gaudreau, A. Hitachi, H. Ichinose, N. Ishida, M. Kase, T. Kashiwagi, J. Kikuchi, T. Nakasugi, E. Shibamura, K. Sumorok and T. Takahashi, Measurement of liquid xenon scintillation from heavy ions using a silicon photodiode A309 (1991) 489
Masuzawa, M., see Bartoszek, L. A301 (1991) 47
Masuzawa, M., see Ray, R. A307 (1991) 254
Materlik, G., see Nikolaenko, A.M. A308 (1991) 278
Matoba, M., see Koori, N. A307 (1991) 581
Matrone, A., see Barbagelata, L. A304 (1991) 703
Matsui, J., J. Mizuki, K. Akimoto and I. Hirosawa, Characterization of semiconductor interfaces by X-ray diffraction A303 (1991) 532
Matsumoto, T., Thermal neutron response of thermoluminescence dosimeters for application to biomedical dosimetry A301 (1991) 552
Matsumoto, T., see Tanaka, N. A302 (1991) 327
Matsumura, A., T. Takahashi and M. Kurakado, High resolution detection of X-rays with a large area Nb/Al–AlO_x/Al/Nb superconducting tunnel junction (*Letter to the Editor*) A309 (1991) 350
Matsuoka, K., see Ejiri, H. A302 (1991) 304
Matsuoka, K., see Ejiri, H. A302 (1991) 482
Matsuoka, N., T. Noro, F. Hiei, M. Iwaki, H. Sakaguchi, H. Okamura, H. Sakai, A. Okihana and M. Yosoi, Measurements of (n, p) reactions at medium energy using a magnetic spectrometer A305 (1991) 415
Mattern, D., M.C.S. Williams and A. Zichichi, First tests of the gaseous pixel chamber fabricated on a ceramic substrate A310 (1991) 78
Matthews, J., see Hylen, J. A310 (1991) 497
Mattioli, F., see Cavestro, A. A305 (1991) 488
Mattioli, M., see Allegretti, F. A302 (1991) 455
Matveenko, Yu.A., see Mikhailov, M.A. A308 (1991) 301
Matvejev, Yu.G., see Anashin, V.V. A308 (1991) 45
Maul, A., see Bromberg, C. A307 (1991) 292
Maurin, G., see Bacci, C. A301 (1991) 445
Maurin, G., see UA1 Collaboration A305 (1991) 331
Mauskopf, P., see Bebek, C. A302 (1991) 261
Maxfield, S.J., see Grässler, H. A310 (1991) 535
May, J., see Atwood, W.B. A306 (1991) 446
Mayer, J., see ZEUS Calorimeter Group A309 (1991) 101
Mayergoyz, I.D., see Bidwell, S.W. A304 (1991) 187
Mayorov, V.N., see Abramov, A.A. A302 (1991) 529
Mazalov, L.N., N.V. Bausk, V.S. Kravchenko and Ye.B. Amitin, An EXAFS study of the detailed structure of Bi–Pb–Ca–Sr–Cu–O ceramics A308 (1991) 230
Mazumdar, K., see Adriani, O. A302 (1991) 53
Mazurenko, S.N., see Kovalchuk, M.V. A308 (1991) 1
Mazurenko, S.N., see Mikhailov, M.A. A308 (1991) 301
Mazzanti, P., see WA82 Collaboration A309 (1991) 401
Mazzaschi, L., P. Levi Sandri, A. Zucchiatti, M. Anghinolfi, D. Babusci, N. Bianchi, P. Corvisiero, A. D'Angelo, E. De Sanctis, G. Gervino, B. Girolami, V. Lucherini, V. Mokeev, V. Muccifora, P. Picozza, E. Polli, A.R. Reolon, G. Ricco, M. Ripani, P. Rossi, M. Sanzone, C. Schaerf and M. Taiuti, Simulation of particle interactions in BGO A305 (1991) 391
Mazzei, D., see Bencivelli, W. A305 (1991) 574
Mazzone, L., see Bettini, A. A305 (1991) 177
Mazzoni, M.S., see Borchi, E. A310 (1991) 273
McCarthy, K., see Castelli, C. A310 (1991) 240
McCarthy, K., see Collier, J. A310 (1991) 565
McCliment, E., see Ross, W. A310 (1991) 493
McCollum, T., see Spector, G.B. A309 (1991) 303
McConnell, J.W., see Shapira, D. A301 (1991) 76
McCrary, K., see Dowell, D.H. A304 (1991) 1
McCrary, K., see Laucks, M.L. A304 (1991) 25
McCrary, K., see Dowell, D.H. A304 (1991) 336
McDaniel, F.D., see Weathers, D.L. A303 (1991) 69
McDermott, D., see Caplan, M. A304 (1991) 200
McDermott, D.B., see Aghamir, F. A304 (1991) 155
McDonald, M., see Buchmann, L. A306 (1991) 413
McDonald, W.J., see Cameron, J.M. A305 (1991) 257

McDonald, W.J., see Abegg, R. . . . A306 (1991) 432
McEwan, A.J., see Hartley, P.E. . . . A301 (1991) 269
McEwen, J.G., see WA84 Collaboration . . . A310 (1991) 485
McIlwain, R.L., see Bebek, C. . . . A302 (1991) 261
McKee, B.T.A., A.G. Duffy, W.B. Feller and A.T. Stewart, Thick microchannel plate detectors for 511 keV gamma rays . . . A310 (1991) 255
McKee, B.T.A., P.J. Harvey and J.D. MacPhail, Data acquisition for a medical imaging MWPC detector . . . A310 (1991) 545
McKee, C.B. and J.M.J. Madey, Optimization of a thermionic microwave electron gun . . . A304 (1991) 386
McKemey, A.K., see Acton, P. . . . A305 (1991) 504
McKenna, K., see Feldman, D.W. . . . A304 (1991) 224
McKibben, J.L., Early history of Los Alamos with emphasis on the two Van de Graaff accelerators from the University of Wisconsin . . . A303 (1991) 1
McLaughlin, W.L., Chen Yun-Dong, C.G. Soares, A. Miller, G. Van Dyk and D.F. Lewis, Sensitometry of the response of a new radiochromic film dosimeter to gamma radiation and electron beams . . . A302 (1991) 165
Mclean, K., see Bylsma, B.G. . . . A305 (1991) 354
McNeil, B.W.J., P. Pierini and R. Bonifacio, Microscopic gain mechanism in the high-gain free electron laser . A304 (1991) 411
McNeil, J.A., see Xi, J. . . . A301 (1991) 219
McVey, B., see Dowell, D.H. . . . A304 (1991) 1
McVey, B., see Laucks, M.L. . . . A304 (1991) 25
McVey, B., see Elliott, C.J. . . . A304 (1991) 545
McVey, B.D., see Schmitt, M.J. . . . A304 (1991) 571
McVey, B.D., see Goldstein, J.C. . . . A304 (1991) 622
McVey, B.D., see Elliott, C.J. . . . A304 (1991) 725
McWhan, D., see Alexandropoulos, N.G. . . . A308 (1991) 282
Meagher, G., see Le Gros, M. . . . A310 (1991) 224
Meddens, B.J.H., see van Amersfoort, P.W. . . . A304 (1991) 163
Meddi, F., see Bacci, C. . . . A306 (1991) 182
Medici, G., see Angelov, T. . . . A306 (1991) 536
Medvedev, A.F., V.Ya. Epp, M.L. Shinkeev and V.F. Zalmezh, On the construction of block-periodic undulators with metrologically pure radiation kernels . . . A308 (1991) 124
Medvedko, A.S., see Anashin, V.V. . . . A308 (1991) 45
Medvedkov, A.M., see Gorin, A.M. . . . A310 (1991) 251
Medvedkov, A.M., see Denisov, A.G. . . . A310 (1991) 479
Meienburg, W., see Bitter, T. . . . A309 (1991) 521
Meier, K.H., see Acosta, D. . . . A302 (1991) 36
Meister, M., see Litke, A. . . . A310 (1991) 389
Meleshko, E.A., see Abramov, A.A. . . . A302 (1991) 529
Méliani, Z., see Dionisio, J.S. . . . A303 (1991) 9
Menasce, D., see Bellini, G. . . . A305 (1991) 395
Meneghini, S., see Bianco, S. . . . A305 (1991) 48
Meneguzzo, A., see UA1 Collaboration . . . A305 (1991) 331
Menichelli, M., see Brunetti, M.T. . . . A302 (1991) 362
Menichelli, M., see Golden, R.L. . . . A306 (1991) 366
Menichetti, E., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Menninger, W.L., see Chen, C. . . . A304 (1991) 593
Mennrath, P., see Dassie, D. . . . A309 (1991) 465
Menzione, A., see Bartoli, B. . . . A302 (1991) 515
Menzione, A., see Cresti, M. . . . A306 (1991) 563
Merkel, B., see RD3 Collaboration . . . A309 (1991) 438
Meroni, C., see WA82 Collaboration . . . A309 (1991) 401
Merritt, F.S., see King, B.J. . . . A302 (1991) 254
Merritt, K.W.B., see King, B.J. . . . A302 (1991) 254
Meschini, M., see Adriani, O. . . . A302 (1991) 53
Messick, M., see Shapira, D. . . . A301 (1991) 76
Messina, G., see Ciocci, F. . . . A304 (1991) 17
Messineo, A., see Bencivelli, W. . . . A305 (1991) 574
Messineo, A., see Bencivelli, W. . . . A310 (1991) 210
Meyer, D., see Weaverdyck, C. . . . A310 (1991) 690
Meyer, H., see Fréjus Collaboration . . . A302 (1991) 406
Meyer, T.C., see Atwood, W.B. . . . A306 (1991) 446
Mezentsev, N.A., see Veshcherevich, V.G. . . . A308 (1991) 102

Mezentsev, N.A., see Dementyev, E.N. A308 (1991) 352
Mezentsev, N.A., see Dolbnya, I.P. A308 (1991) 416
Mezentsev, N.A., see Barsukov, V.P. A308 (1991) 419
Mezi, L., see Dattoli, G. A304 (1991) 541
Mezzetto, M., see Cavestro, A. A305 (1991) 488
Michaelian, K., see Backenstoss, G. A310 (1991) 518
Michalon, A., see Andersen, E. A301 (1991) 69
Michalon-Mentzer, M.E., see Andersen, E. A301 (1991) 69
Michaud, P., see Dei-Cas, R. A304 (1991) 215
Michaud, P., see Bois, R. A304 (1991) 315
Michel, E., see Nikolaenko, A.M. A308 (1991) 278
Michel, L., A. Bourdier and J.M. Buzzi, Chaotic electron trajectories in a free electron laser A304 (1991) 465
Mickael, M.W., A complete inverse Monte Carlo model for energy-dispersive X-ray fluorescence analysis . . . A301 (1991) 523
Middelhoek, J., see Aite, K. A305 (1991) 533
Mijnarends, P.E., see Dai, G.H. A306 (1991) 261
Mikado, T., see Yamada, K. A304 (1991) 86
Mikado, T., see Yamazaki, T. A309 (1991) 343
Mikaelian, R.A., see Egikian, D.L. A308 (1991) 397
Mikhailin, V.V., see Belskiy, A.N. A308 (1991) 190
Mikhailov, A.Yu., see Kotrbova, M. A308 (1991) 456
Mikhailov, M.A., Yu.M. Litvinov, Yu.A. Matveenko, S.N. Mazurenko and V.M. Stratonov, Synchrotron radiation spectral distribution and dose influence on the surface states at the Si–SiO_2 interface A308 (1991) 301
Mikhailov, M.A., see Sheremetyev, I.A. A308 (1991) 447
Mikhailov, M.A., see Sheremetyev, I.A. A308 (1991) 451
Mikheeva, M.N., V.G. Nazin, A.V. Svishchev and I.V. Kireev, Energy dependence of photoemission spectra of $YBa_2Cu_3O_{7-x}$ ceramics using synchrotron radiation in the vacuum ultraviolet range A308 (1991) 223
Mikocki, S., see Gress, J. A302 (1991) 368
Milazzo, P.M., see Bruno, M. A305 (1991) 410
Mildner, D.F.R., see Carpenter, J.M. A301 (1991) 305
Mildner, D.F.R., see Carpenter, J.M. A301 (1991) 315
Mildner, D.F.R., Neutron intensity gains for converging guide systems A301 (1991) 395
Mildner, D.F.R., see Van Well, A.A. A309 (1991) 284
Miller, A., see McLaughlin, W.L. A302 (1991) 165
Miller, C.A., see Abegg, R. A306 (1991) 432
Miller, D.J., Particle physics and its detectors A310 (1991) 35
Miller, G.J., see Anthony, I. A301 (1991) 230
Miller, R., see James, M. A307 (1991) 207
Miller, R., see Bromberg, C. A307 (1991) 292
Miller, W., see Hylen, J. A310 (1991) 497
Milliken, B., see Kuhlen, M. A301 (1991) 223
Milliman, L., see Dowell, D.H. A304 (1991) 1
Mills, G.B., see Adriani, O. A302 (1991) 53
Milotti, E., see Cresti, M. A306 (1991) 563
Mima, K., T. Akiba, K. Imasaki, N. Ohigashi, T. Tsunawaki, T. Taguchi, S. Kuruma, S. Nakai and C. Yamanaka, Distributed feedback and gas-loaded FELs driven by induction linac SHVS A304 (1991) 93
Mima, K., see Ohigashi, N. A304 (1991) 476
Mima, K., see Kuruma, S. A304 (1991) 638
Mima, K., see Tsunawaki, Y. A304 (1991) 753
Minelli, G., see Brunetti, M.T. A302 (1991) 362
Minten, A., see Atwood, W.B. A306 (1991) 446
Mirov, S.B., see Aleksandrov, Yu.M. A308 (1991) 208
Mischke, R.E., see Armijo, V. A303 (1991) 298
Mischke, R.E., see Berdoz, A.R. A307 (1991) 26
Mishin, V.I., see Alkhazov, G.D. A306 (1991) 400
Mishiro, H., see Shibata, Y. A301 (1991) 161
Mishra, S.R., see King, B.J. A302 (1991) 254
Mitchell, J., see ZEUS Calorimeter Group A309 (1991) 101
Mitchell, J.H., see Lourie, R.W. A306 (1991) 83
Mitin, A.I., see Artemiev, V.A. A303 (1991) 309
Mitrofanov, A.V., F.A. Pudonin, P.Yu. Apel and T.I. Gromova, The ultraviolet transmittance of porous VUV and X-ray diffraction filters A308 (1991) 347

Mitselmakher, G.D., see Alekseev, G.D. . . . A305 (1991) 344
Mittiga, A., see Bacci, C. . . . A306 (1991) 182
Mitwalsky, A., see Dollinger, G. . . . A303 (1991) 79
Miyake, S., see Adarkar, H. . . . A308 (1991) 574
Mizobuchi, A., see Tanabe, T. . . . A307 (1991) 7
Mizota, T., K. Yuasa-Nakagawa, S.M. Lee and T. Nakagawa, Timing properties of a stop detector for a time-of-flight system . . . A305 (1991) 125
Mizuki, J., see Matsui, J. . . . A303 (1991) 532
Mizuno, T., see Sekita, H. . . . A304 (1991) 137
Mjornmark, U., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Mnev, V.N., see Anashin, V.V. . . . A308 (1991) 50
Mnich, J., see Akbari, H. . . . A302 (1991) 415
Mochiki, K., see Soramoto, S. . . . A306 (1991) 524
Mochiki, K., see Hasegawa, K. . . . A310 (1991) 471
Moghul, A.H., see Imrie, D.C. . . . A310 (1991) 122
Mohammadi, M., see UA1 Collaboration . . . A305 (1991) 331
Mohar, M.F., see Clayton, J. . . . A305 (1991) 116
Mohr, D.L., see Debenham, P.H. . . . A304 (1991) 208
Mohr, W., see Dreyer, T. . . . A309 (1991) 184
Mokeev, V., see Mazzaschi, L. . . . A305 (1991) 391
Mokulskii, M.A., see Kusev, S.V. . . . A308 (1991) 464
Molinari, G., see Bianco, S. . . . A305 (1991) 48
Molodkin, V.B., see Baryakhtar, V.G. . . . A308 (1991) 291
Molodkin, V.B., see Nemoshkalenko, V.V. . . . A308 (1991) 294
Molodkin, V.B., see Kislovskii, E.N. . . . A308 (1991) 297
Mommaert, C., see Bähr, J. . . . A306 (1991) 169
Mönch, H., see Fréjus Collaboration . . . A302 (1991) 406
Mondal, N.K., see Adarkar, H. . . . A308 (1991) 574
Mondardini, M.R., see Acosta, D. . . . A305 (1991) 55
Mondardini, M.R., see Acosta, D. . . . A308 (1991) 481
Mondardini, M.R., see Acosta, D. . . . A309 (1991) 143
Mondardini, R.M., see Acosta, D. . . . A302 (1991) 36
Mondry, A., see Brendle, M. . . . A302 (1991) 342
Moneta, L., see Batignani, G. . . . A310 (1991) 160
Mongelli, M., see Bellotti, R. . . . A305 (1991) 192
Mooney, T.M., R.E. Fauber, T.B. Clegg and E.J. Ludwig, An energy-resolution-function measurement system for charged-particle beams . . . A307 (1991) 185
Moore, J.E., see Gobby, P.L. . . . A303 (1991) 187
Morand, C., see Désesquelles, P. . . . A307 (1991) 366
Moreau, F., S. Tisserant, J. Guillon, C. de la Taille and P. Salin, Purity measurement in tetramethylsilane . . . A306 (1991) 309
Moreh, R., R. Fedorowicz, W.V. Prestwich, T.J. Kennett and M.A. Islam, A strong dynamic neutron source based on the ^{209}Bi(γ, n) reaction . . . A309 (1991) 503
Moret-Bailly, J. and M. Roche, Electrostatic FEL frequency stabilization: optical design and amplifying medium . . . A304 (1991) 248
Moret-Bailly, J., see Roche, M. . . . A304 (1991) 255
Morgan, G.L., N.S.P. King, P.W. Lisowski, K.G. Boyer, H.A. Enge, S.B. Kowalski, R.F. Holsinger, R.R. Lown, S.G. Iversen, J.R. Tinsley and R.M. Baltrusaitis, Broad range electron spectrometer using permanent magnets . . . A308 (1991) 544
Morgan, K., see Bacci, C. . . . A301 (1991) 445
Morgan, K., see UA1 Collaboration . . . A305 (1991) 331
Morgunov, L.G., see Veshcherevich, V.G. . . . A308 (1991) 102
Morgunov, V., see Adriani, O. . . . A302 (1991) 53
Mori, C., T. Haga and A. Uritani, A new position-sensitive nuclear fission counter with a convenient readout method for neutron measurement . . . A310 (1991) 437
Mori, K., see Kobayashi, M. . . . A306 (1991) 139
Mori, Y., T. Okuyama, A. Takagi and D. Yuan, Development of the KEK volume H^- ion source . . . A301 (1991) 1
Moricciani, D., see Babusci, D. . . . A305 (1991) 19
Morita, K., see Iivonen, A. . . . A307 (1991) 69
Moroni, A., see Bruno, M. . . . A305 (1991) 410
Moroni, A., see Bassini, R. . . . A305 (1991) 449
Moroni, L., see Bellini, G. . . . A305 (1991) 395

Morozov, A.G., see Abramov, A.A. A302 (1991) 529
Morozov, I.V., see Abramov, A.A. A302 (1991) 529
Morrison, D.R.O., see WA84 Collaboration A310 (1991) 485
Morsani, F., see Atwood, W.B. A306 (1991) 446
Morselli, A., see Golden, R.L. A306 (1991) 366
Morton, J.M., see Grässler, H. A310 (1991) 535
Mosca, L., see Fréjus Collaboration A302 (1991) 406
Moscoso, L., see Fréjus Collaboration A302 (1991) 406
Moser, H.-G., Experience with the ALEPH silicon vertex detector A310 (1991) 490
Moser, U., see Czapek, G. A306 (1991) 572
Mosquera, J., see Andersen, E. A301 (1991) 69
Moss, G.A., see Abegg, R. A306 (1991) 432
Moss, M.W., see Allison, J. A310 (1991) 527
Mosscrop, D.R., see Berdoz, A.R. A307 (1991) 26
Moszynski, M., see Kuhlen, M. A301 (1991) 223
Moszyński, M., see Kręciejewski, M. A301 (1991) 424
Moszyński, M., G.J. Costa, G. Guillaume, B. Heusch, A. Huck and S. Mouatassim, Comparative study of new 130 mm diameter fast photomultipliers for neutron detectors A307 (1991) 97
Moszyński, M. and G. Duchêne, Ballistic deficit correction methods for large Ge detectors A308 (1991) 557
Mouatassim, S., see Moszyński, M. A307 (1991) 97
Mount, R., see Adeva, B. A309 (1991) 318
Movchan, S.A., see Zanevsky, Yu.V. A310 (1991) 362
Mower, W., see Dowell, D.H. A304 (1991) 1
Mower, W., see Laucks, M.L. A304 (1991) 25
Muccifora, V., see Mazzaschi, L. A305 (1991) 391
Muenchausen, R.E., S.R. Foltyn, N.S. Nogar, R.C. Estler, E.J. Peterson and X.D. Wu, Laser-induced target modification effects on pulsed laser depositions of Y–Ba–Cu–O superconducting thin films A303 (1991) 204
Muggleton, A.H.F., Nuclear target fabrication using a modified fine beam saddle-field ion source A303 (1991) 157
Mühle, C., see Shirkov, G.D. A302 (1991) 1
Mukherjee, R., see Aprile, E. A302 (1991) 177
Mukherjee, R., see Aprile, E. A307 (1991) 119
Mukhopadyay, S., see Backenstoss, G. A310 (1991) 518
Müller, B., see Feuerstack, M. A310 (1991) 287
Muller, F., see WA82 Collaboration A309 (1991) 401
Müller, F., see Cindro, V. A309 (1991) 411
Müller, J.W., Generalized dead times A301 (1991) 543
Müller, J.W., Can philosophy be of any use in counting statistics? A309 (1991) 555
Muller, R.A., see Bertsche, K.J. A301 (1991) 358
Mullerworth, S.D. and D. Ramsden, A silicon diode array for hard X-ray imaging applications A310 (1991) 179
Mullerworth, S.D., see Bird, A.J. A310 (1991) 323
Munch, D., see Bois, R. A304 (1991) 315
Münchmeyer, D., see Ehrfeld, W. A303 (1991) 523
Munoz, R., see Bettini, A. A305 (1991) 177
Muñoz, R.C., see Bacci, C. A301 (1991) 445
Muñoz, R.C., see UA1 Collaboration A305 (1991) 331
Münzenberg, G., see Folger, H. A303 (1991) 24
Murakami, A., H. Asakura and H. Yoshinaka, Radiation damage and recovery in the light emittance efficiency and the attenuation length of barium fluoride scintillator A301 (1991) 435
Murashova, V.A., see Alexandrov, Yu.M. A308 (1991) 340
Murashova, V.A., see Alexandrov, Yu.M. A308 (1991) 343
Murasugi, S., see Kawakubo, T. A306 (1991) 426
Murata, Y., see Ito, Y. A305 (1991) 269
Muratori, G., see Bettini, A. A305 (1991) 177
Muraviev, S., see Shank, J.T. A309 (1991) 377
Muravyatkin, V.Yu., see Bordovitsyn, V.A. A308 (1991) 128
Muravyatkin, V.Yu., see Nikitin, M.M. A308 (1991) 131
Murín, P., see Antoš, J. A302 (1991) 277
Murphy, P.G., see Allison, J. A310 (1991) 527
Murty, P.S., see Adarkar, H. A308 (1991) 574
Musenich, R., see Fabbricatore, P. A302 (1991) 27
Musgrave, B., see Derrick, M. A309 (1991) 77

Musiol, G., see Shirkov, G.D. A302 (1991) 1
Muto, H., see Sugai, I. A303 (1991) 59
Muto, H., see Tanabe, T. A307 (1991) 7
Myagkova, M.G., see Belskiy, A.N. A308 (1991) 190
Myasoedov, L.V., see Abramov, A.A. A302 (1991) 529
Mytnichenko, S.V., see Neissendorfer, F. A308 (1991) 276
Mytnichenko, S.V., see Kadyrzhanov, K.K. A308 (1991) 308

Naaman, R., see Berkovits, D. A302 (1991) 379
Nagame, Y., see Ideno, K. A302 (1991) 385
Nagaoka, R., K. Yoshida and M. Hara, Nonlinear dynamics with sextupoles in low-emittance light source storage rings A302 (1991) 9
Nagaraj, P., see Adarkar, H. A308 (1991) 574
Nagasaka, Y., I. Arai, K. Yagi and A. Manabe, CAMAC data acquisition system using a transputer link A301 (1991) 109
Nagashima, T., see Shiho, M. A304 (1991) 141
Nagashima, Y., see Haba, J. A303 (1991) 346
Nagayenko, M.G., see Artukh, A.G. A306 (1991) 123
Nagornyh, I.M., see Artemiev, A.N. A308 (1991) 61
Nagy, E., see Adeva, B. A309 (1991) 318
Nahnhauer, R., see Bähr, J. A306 (1991) 169
Naito, Y., see Sekita, H. A304 (1991) 137
Nakagawa, T., see Mizota, T. A305 (1991) 125
Nakai, S., see Mima, K. A304 (1991) 93
Nakai, S., see Ohigashi, N. A304 (1991) 476
Nakai, S., see Kuruma, S. A304 (1991) 638
Nakai, S., see Tsunawaki, Y. A304 (1991) 753
Nakajima, T., see Umetani, K. A301 (1991) 579
Nakamura, H., see Soramoto, S. A306 (1991) 524
Nakamura, H., see Okumura, A. A306 (1991) 530
Nakamura, M., see Saito, K. A310 (1991) 175
Nakamura, M., see Tajima, H. A310 (1991) 504
Nakamura, S., see Haba, J. A303 (1991) 346
Nakamura, T., see Adarkar, H. A308 (1991) 574
Nakanishi, A., see Fukumura, K. A301 (1991) 482
Nakano, I., see Haba, J. A303 (1991) 346
Nakano, K., see Kumagai, H. A308 (1991) 649
Nakashima, H., S.-I. Tanaka, M. Yoshizawa, H. Hirayama, S. Ban, Y. Namito and N. Nariyama, Development of a microcalorimeter for measuring absolute intensity of synchrotron radiation A310 (1991) 696
Nakasugi, T., see Masuda, K. A309 (1991) 489
Nakata, S., see Sato, S. A304 (1991) 649
Nakayama, M., see Fujita, K. A308 (1991) 514
Nakayama, S., T. Yamagata, M. Tanaka, M. Inoue, K. Yuasa, T. Itahashi, H. Ogata, N. Koori and K. Shima, Particle–γ coincidence applied to observation of spin-flip probability in the (^{7}Li, ^{7}Be) reaction A302 (1991) 472
Nakazato, T., see Shibata, Y. A301 (1991) 161
Nakazawa, M., see Soramoto, S. A306 (1991) 524
Nakazawa, M., see Okumura, A. A306 (1991) 530
Namito, Y., see Nakashima, H. A310 (1991) 696
Nanao, S., see Sakai, N. A303 (1991) 488
Nania, R., see Alvisi, C. A305 (1991) 30
Napolitano, J. and T. Hunter, Calculations of higher multipole components in a large superconducting quadrupole magnet A301 (1991) 465
Nappi, E., see Bellotti, R. A305 (1991) 192
Naqvi, A.A., H. Al-Juwair and K. Gul, Energy resolution tests of 125 mm diameter cylindrical NE213 detector using monoenergetic gamma rays A306 (1991) 267
Narain, M., see Schamberger, R.D. A309 (1991) 450
Narasimham, V.S., see Adarkar, H. A308 (1991) 574
Nardini, L., see Allport, P.P. A310 (1991) 155
Nardò, R., see Antoniazzi, L. A307 (1991) 312
Nariyama, N., see Nakashima, H. A310 (1991) 696
Nastoll, H., K. Schreckenbach, C. Baglin, A. Bussière, J.P. Guillaud, R. Kossakowski and P. Liaud, Precise determination of the degree of polarization of a cold neutron beam A306 (1991) 65

Natchez, F., see Dassie, D. A309 (1991) 465
Nath, S., see Garnett, R. A309 (1991) 508
Natkaniec, Z., see Andersen, E. A301 (1991) 69
Nauenberg, U., see Xi, J. A301 (1991) 219
Naumann, B., see Ableev, V.G. A306 (1991) 73
Naumann, L., see Bacci, C. A301 (1991) 445
Naumann, L., see UA1 Collaboration A305 (1991) 331
Naumann, L., see Ableev, V.G. A306 (1991) 73
Nazin, V.G., see Mikheeva, M.N. A308 (1991) 223
Naz'mov, V.P., see Lyakh, V.V. A308 (1991) 327
Naz'mov, V.P., Project for a photochemistry station at VEPP-2M A308 (1991) 330
Naz'mov, V.P., see Chesnokov, V.V. A308 (1991) 333
Ndlovu, A.M., T.J. Farrell and C.E. Webber, In vitro bone mineral measurements by coherent scattering in phantoms and the calcaneus A305 (1991) 484
Nebbia, G., see Chambon, B. A307 (1991) 333
Nedelec, P., see Bacci, C. A301 (1991) 445
Nedelec, P., see UA1 Collaboration A305 (1991) 331
Needham, G.A., see Romero, J.L. A301 (1991) 241
Negri, P., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Neil, G., see Lazar, N.H. A304 (1991) 243
Neissendorfer, F., H.J. Rossa, K.P. Thiessen, B.P. Tolochko, S.V. Mytnichenko and M.A. Sheromov, X-ray stress measurements with synchrotron radiation A308 (1991) 276
Nelson, J.M., see Andersen, E. A301 (1991) 69
Nelson, R.O., see Drake, D.M. A309 (1991) 575
Nelson, W.R., see Bencivelli, W. A305 (1991) 574
Nelson, W.R., see Del Guerra, A. A306 (1991) 378
Nelson, W.R., see James, M. A307 (1991) 207
Nelson, W.R., see Bencivelli, W. A310 (1991) 210
Nemoshkalenko, V.V., see Baryakhtar, V.G. A308 (1991) 291
Nemoshkalenko, V.V., V.B. Molodkin, S.I. Olikhovskii, M.V. Kovalchuk, Yu.M. Litvinov, E.N. Kislovskii and A.I. Nizkova, Energy dispersive analysis of total integrated intensity of diffracted synchrotron radiation in monocrystals with defects A308 (1991) 294
Nemoshkalenko, V.V., see Kislovskii, E.N. A308 (1991) 297
Nessi, M., see RD3 Collaboration A309 (1991) 438
Nessi-Tedaldi, F., see RD3 Collaboration A309 (1991) 438
Netusil, T., see Zanevsky, Yu.V. A310 (1991) 362
Neuhauser, B.J., see Martoff, C.J. A301 (1991) 376
Neuhofer, G., see Andersen, E. A301 (1991) 69
Nevski, P., see Shank, J.T. A309 (1991) 377
Newbury, N., see Holmes, R. A303 (1991) 226
Newman, D., see Akbari, H. A302 (1991) 415
Newman, H., see Zhu, R.Y. A302 (1991) 69
Newnam, B.E., see Goldstein, J.C. A304 (1991) 449
Newton, J.O., see Wei, J.X. A306 (1991) 557
Ng, C.R., see Bebek, C. A302 (1991) 261
Nguyen, A., see Bromberg, C. A307 (1991) 292
Nguyen-Khac, U., sée Fréjus Collaboration A302 (1991) 406
Nguyen Ngoc, H., see Buon, J. A306 (1991) 93
Ni, B., see Cameron, J.M. A305 (1991) 257
Nicaise, W.F., see Borden, M.J. A303 (1991) 63
Niessen, L., see Adriani, O. A302 (1991) 53
Niessen, L., see Adeva, B. A309 (1991) 318
Niimura, N., see Shibata, Y. A301 (1991) 161
Nijman, J.P., see van Amersfoort, P.W. A304 (1991) 163
Nikitin, M.M., V.Yu. Muravyatkin and V.Ya. Epp, Radiation of charges in a strong undulator electromagnetic field A308 (1991) 131
Nikolaenko, A.M., M.V. Kovalchuk, A.S. Semiletov, Yu.N. Shilin, E. Michel and G. Materlik, Photoelectron yield excited by an X-ray standing wave with synchrotron radiation: energy-dispersive measurements with a magnetic analyzer A308 (1991) 278
Nikolaev, V.P., see Artemiev, V.A. A303 (1991) 309

Nikolaev, Yu.M., V.B. Polushin and S.V. Serezhnikov, Measurement of the integral characteristics of radiation fields of medium-energy nucleons by plastic scintillation detectors . . . A306 (1991) 343
Nikulin, D.S., see Alexandrov, A.A. . . . A303 (1991) 323
Nikulin, O.N., see Artemiev, A.N. . . . A308 (1991) 61
Nishijima, K., see Doke, T. . . . A302 (1991) 290
Nishiyama, F., see Sugitate, T. . . . A307 (1991) 265
Nisius, R., see Fréjus Collaboration . . . A302 (1991) 406
Nitani, N., see Baba, H. . . . A309 (1991) 236
Niwa, K., see Saito, K. . . . A310 (1991) 175
Niwa, K., see Tajima, H. . . . A310 (1991) 504
Nixon, G., see Belusevic, R. . . . A307 (1991) 110
Nizkova, A.I., see Baryakhtar, V.G. . . . A308 (1991) 291
Nizkova, A.I., see Nemoshkalenko, V.V. . . . A308 (1991) 294
Nizkova, A.I., see Kislovskii, E.N. . . . A308 (1991) 297
Noda, A., see Noda, K. . . . A303 (1991) 215
Noda, A., see Tanabe, T. . . . A307 (1991) 7
Noda, K., A. Noda, I. Katayama and N. Sakamoto, A use of a thin foil target in a cooler ring experiment . . . A303 (1991) 215
Noda, K., see Tanabe, T. . . . A307 (1991) 7
Nogar, N.S., see Muenchausen, R.E. . . . A303 (1991) 204
Noguchi, T., see Yamazaki, T. . . . A309 (1991) 343
Nogues, C., see Czapek, G. . . . A306 (1991) 572
Nohtomi, A., see Koori, N. . . . A307 (1991) 581
Nolan, T., see Owens, A. . . . A307 (1991) 420
Noland, R., see Derrick, M. . . . A309 (1991) 77
Nölle, D., Some thoughts on high-gain optical klystrons . . . A304 (1991) 472
Nõmmiste, E., see Ausmees, A. . . . A308 (1991) 219
Nomofilov, A.A., see Ableev, V.G. . . . A306 (1991) 73
Nomura, T., see Fujioka, M. . . . A309 (1991) 600
Nooren, G.J.L., see Steijger, J. . . . A310 (1991) 513
Noppe, J.M., see Cizeron, R. . . . A307 (1991) 286
Nordlund, P., see Clifton, I.J. . . . A303 (1991) 476
Noro, T., see Matsuoka, N. . . . A305 (1991) 415
Novgorodov, B.N., see Zschech, E. . . . A308 (1991) 255
Novikov, D.V., see Stepanov, S.A. . . . A301 (1991) 350
Novotny, R., see Shapira, D. . . . A301 (1991) 76
Numata, S., see Shin, K. . . . A308 (1991) 609
Nunn, D.G., see Grässler, H. . . . A310 (1991) 535
Nutter, S., C.R. Bower, M.W. Gebhard, R.M. Heinz and G. Spiczak, Sintered Halon as a diffuse reflecting liner for light integration boxes . . . A310 (1991) 665
Nygård, E., P. Aspell, P. Jarron, P. Weilhammer and K. Yoshioka, CMOS low noise amplifier for microstrip readout. Design and results . . . A301 (1991) 506
Nyholm, R., see Ausmees, A. . . . A308 (1991) 219

Oakley, D., see Xi, J. . . . A301 (1991) 219
O'Brien, H.A., see Koehler, P.E. . . . A303 (1991) 182
Obukhov, Y.L., see Artukh, A.G. . . . A306 (1991) 123
Oda, H., see Saito, T. . . . A301 (1991) 568
Oda, H., see Shiho, M. . . . A304 (1991) 141
Oda, H., see Kishimoto, Y. . . . A304 (1991) 632
Odintsov, D.G., see Artemiev, A.N. . . . A308 (1991) 61
O'Dowd, A., see Allison, J. . . . A310 (1991) 527
Oed, A., see Budtz-Jørgensen, C. . . . A310 (1991) 82
Oed, A., P. Geltenbort and C. Budtz-Jørgensen, Substratum and layout parameters for microstrip anodes in gas detectors . . . A310 (1991) 95
Oepts, D., see van Amersfoort, P.W. . . . A304 (1991) 163
Oepts, D., see Colson, W.B. . . . A304 (1991) 822
Ogata, A., On optical resolution of beam size measurements by means of synchrotron radiation (*Letter to the Editor*) . . . A301 (1991) 596
Ogata, H., see Tanaka, M. . . . A302 (1991) 460
Ogata, H., see Nakayama, S. . . . A302 (1991) 472
Ogawa, H., see Sato, Y. . . . A309 (1991) 348

Ogawa, H., see Sato, Y. A310 (1991) 693
Ogawa, K., see Haba, J. A303 (1991) 346
Oh, B.Y., see Bromberg, C. A307 (1991) 292
Oh, S.H., D.K. Wesson, J. Cooke, A.T. Goshaw, W.J. Robertson and W.D. Walker, Design and performance of a straw tube drift chamber A303 (1991) 277
Oh, S.H., A.T. Goshaw and W.J. Robertson, Construction and performance of a 2.7 m long straw drift tube prototype chamber for the SSC A309 (1991) 368
Ohashi, H., see Hajima, R. A304 (1991) 230
Ohashi, Y., see Garnett, R. A309 (1991) 508
Ohgaki, H., see Yamada, K. A304 (1991) 86
Ohgaki, H., see Yamazaki, T. A309 (1991) 343
Ohi, K., see Ohigashi, N. A304 (1991) 476
Ohi, K., see Kuruma, S. A304 (1991) 638
Ohigashi, N., see Mima, K. A304 (1991) 93
Ohigashi, N., K. Mima, K. Ohi, S. Kuruma, T. Akiba, K. Imasaki, Y. Tsunawaki, T. Taguchi, C. Yamanaka and S. Nakai, Studies on an accelerator by an inverse free electron laser process A304 (1991) 476
Ohigashi, N., see Tsunawaki, Y. A304 (1991) 753
Ohsaka, T., see Shibata, Y. A301 (1991) 161
Ohshima, T., see Tanaka, M. A302 (1991) 460
Ohta, H., see Sekita, H. A304 (1991) 137
Ohya, S., see Hasegawa, K. A310 (1991) 366
Okada, K., see Ejiri, H. A302 (1991) 304
Okada, S., see Ito, Y. A305 (1991) 269
Okamura, H., see Matsuoka, N. A305 (1991) 415
Okihana, A., see Matsuoka, N. A305 (1991) 415
Okuda, S., see Sato, S. A304 (1991) 649
Okumura, A., see Soramoto, S. A306 (1991) 524
Okumura, A., S. Soramoto, H. Hayashida, H. Nakamura and M. Nakazawa, A proposal of a new in-core neutron monitor using nuclear pumped laser A306 (1991) 530
Okuno, H., see Kato, S. A307 (1991) 213
Okusawa, T., see Fujita, K. A308 (1991) 514
Okuyama, T., see Mori, Y. A301 (1991) 1
Olesen, C., see Budtz-Jørgensen, C. A310 (1991) 82
Oleynik, S.V., see Abramov, A.A. A302 (1991) 529
Olikhovskii, S.I., see Baryakhtar, V.G. A308 (1991) 291
Olikhovskii, S.I., see Nemoshkalenko, V.V. A308 (1991) 294
Olikhovskii, S.I., see Kislovskii, E.N. A308 (1991) 297
Olmos, P., J.M. Perez, G. Garcia-Belmonte, A. Bru and J.L. de Pablos, Computer simulations of the behaviour of the partial charge collection model in thick HgI_2 γ-detectors A302 (1991) 91
Olsson, M., see Elevant, T. A306 (1991) 331
Olsson, T., see Lindblom, P. A302 (1991) 113
Oltman, E., see King, B.J. A302 (1991) 254
Omeich, M., see Bourdon, J.C. A304 (1991) 322
Ong, B., see Acosta, D. A302 (1991) 36
Ong, B., see Acosta, D. A305 (1991) 55
Ong, B., see Acosta, D. A308 (1991) 481
Ong, B., see Acosta, D. A309 (1991) 143
OPAL Collaboration, The OPAL detector at LEP A305 (1991) 275
Openshaw, R., R.S. Henderson, W. Faszer and M. Salomon, Etching of anode wire deposits with CF_4/isobutane (80:20) avalanches A307 (1991) 298
Orava, R., see Hietanen, I. A301 (1991) 116
Orava, R., see Hietanen, I. A305 (1991) 173
Orava, R., see Hietanen, I. A310 (1991) 671
Orava, R., see Hietanen, I. A310 (1991) 677
Oreglia, M.J., see King, B.J. A302 (1991) 254
Oreshkov, A.D., see Gavrilov, N.G. A304 (1991) 228
Orlov, V.A., see Demyanov, G.V. A308 (1991) 149
Ormes, J.F., see Golden, R.L. A306 (1991) 366
Orndorff, J., see Akbari, H. A302 (1991) 415
Ortéga, J.M., see Bourgeois, P. A301 (1991) 150
Ortega, J.M., see Prazeres, R. A304 (1991) 72

Ortega, J.M., see Bourdon, J.C. A304 (1991) 322
Ortega, J.M., see Couprie, M.E. A304 (1991) 710
Osa, A., see Kawade, K. A301 (1991) 594
Osculati, B., see WA82 Collaboration A309 (1991) 401
O'Shaughnessy, K., see Hylen, J. A310 (1991) 497
O'Shaughnessy, K., see Sadrozinski, H.F.-W. A310 (1991) 557
O'Shea, P.G., see Feldman, D.W. A304 (1991) 224
O'Shea, P.G., see Carlsten, B.E. A304 (1991) 587
O'Shea, V., see Alvisi, C. A305 (1991) 30
Osipov, V.N., see Anashin, V.V. A308 (1991) 45
Osteria, G., see Ambrosio, M. A301 (1991) 275
Ostojic, R., On the feasibility of passive tuning of the magnetic field in high-energy fixed-frequency superconducting cyclotrons A309 (1991) 17
Ostuni, S., see Bruno, M. A305 (1991) 410
Otaredian, T., see Wouters, S.E. A305 (1991) 608
Ott, R.J., see Sanghera, B. A310 (1991) 455
Ott, R.J., see Suckling, J. A310 (1991) 465
Ottonello, G., see Barbagelata, L. A304 (1991) 703
Otwinowski, S., see UA1 Collaboration A305 (1991) 331
Ou Yangqun, see Xie Jialin A304 (1991) 770
Ovchinnikov, A.A., see Veshcherevich, V.G. A308 (1991) 102
Owens, A., see Pascarelle, S.M. A302 (1991) 388
Owens, A., T. Nolan, N. Gehrels and G. Smith, The ground support equipment for the transient gamma-ray spectrometer A307 (1991) 420
Owens, A., S.M. Pascarelle, N. Gehrels and B.J. Teegarden, Empirical efficiency and volume relationships for HPGe detectors A310 (1991) 681
Oyaizu, M., see Sugai, I. A303 (1991) 59
Oyama, T., T. Hirose, K. Amako, J. Kanzaki and T. Tsuboyama, Vectorization of the track reconstruction program for the VENUS central drift chamber at TRISTAN A305 (1991) 71
Oyamada, M., see Shibata, Y. A301 (1991) 161

Paar, H.P., see Acosta, D. A302 (1991) 36
Paar, H.P., see Acosta, D. A305 (1991) 55
Paar, H.P., see Acosta, D. A308 (1991) 481
Paar, H.P., see Acosta, D. A309 (1991) 143
Pagani, C., L. Serafini, S. Tazzari and M. Ferrario, The ARES linac as a possible VUV FEL driver A304 (1991) 251
Pagani, C., see Serafini, L. A304 (1991) 654
Pagano, A., see Fonte, R. A307 (1991) 80
Page, S.A., see Abegg, R. A306 (1991) 432
Page, S.A., see Berdoz, A.R. A307 (1991) 26
Page, S.C. and F.H. Read, Lens first-order transfer matrices incorporating third-order aberrations (*Letter to the Editor*) A309 (1991) 594
Pain, M.T., see Fraser, G.W. A306 (1991) 247
Palamá, G., see Fonte, R. A307 (1991) 80
Palestini, S., see Bartoszek, L. A301 (1991) 47
Palma, F., see Vacchi, A. A306 (1991) 187
Palmer, R.B., see Gallardo, J.C. A304 (1991) 345
Palmeri, A., see Badalá, A. A306 (1991) 283
Palmeri, A., see Anzalone, A. A308 (1991) 533
Palmonari, F., see Alvisi, C. A305 (1991) 30
Paludetto, R., see Borchi, E. A301 (1991) 215
Palumbo, L., see Bartalucci, S. A309 (1991) 355
Pan, L.H., see Yang, T.L. A304 (1991) 280
Pan, Y.B., see Bellantoni, L. A310 (1991) 618
Panareo, M., see Antoniazzi, L. A307 (1991) 312
Panaro, L., see Antonioli, P. A309 (1991) 569
Panasyuk, V.S., see Anevsky, S.I. A308 (1991) 35
Panchenko, V.E., see Anashin, V.V. A308 (1991) 50
Panchenko, V.E., see Fedotov, M.G. A308 (1991) 367
Panchenko, V.E., see Fedotov, M.G. A308 (1991) 423
Panchenko, V.E., see Fedotov, M.G. A308 (1991) 427

Panchenko, V.E., see Fedotov, M.G. A308 (1991) 430
Pandoulas, D., see Adriani, O. A302 (1991) 53
Pansky, A., see Breskin, A. A310 (1991) 57
Pantaleo, A., see Paticchio, V. A305 (1991) 150
Panteleyev, V.N., see Alkhazov, G.D. A306 (1991) 400
Pantell, R.H., Comparisons between the FEL and the conventional laser A304 (1991) 798
Panter, M., see Feuerstack, M. A310 (1991) 287
Papadichev, V.A., see Bogachenkov, V.A. A304 (1991) 104
Papadichev, V.A., Analytical formulae for magnetic fields in undulators A304 (1991) 743
Papadichev, V.A., Electron trajectories in undulators A304 (1991) 749
Pappalardo, G.S., see Badalá, A. A306 (1991) 283
Pappalardo, G.S., see Anzalone, A. A308 (1991) 533
Park, J.-H. and W.B. Colson, A simple model of the LLNL ELF FEL amplifier A304 (1991) 641
Park, R., see Golden, R.L. A306 (1991) 366
Park, S., see Aghamir, F. A304 (1991) 155
Park, S.K., see Bylsma, B.G. A305 (1991) 354
Parker, B., see Lewis, R. A310 (1991) 70
Parker, B., see Hall, C.J. A310 (1991) 215
Parker, D.J., see Hawkesworth, M.R. A310 (1991) 423
Parlevliet, D., see Schierbeek, A.J. A310 (1991) 571
Parmonen, J.M., Z. Janas, W.H. Trzaska, J. Äystö, J. Kantele, P.P. Jauho, A. Jokinen and H. Penttilä, Electron-transporter spectrometer for on-line isotope separator A306 (1991) 504
Parodi, R., see Fabbricatore, P. A302 (1991) 27
Parrini, G., see Batignani, G. A310 (1991) 160
Pascarelle, S.M., A. Owens, N. Gehrels and B.J. Teegarden, Geometry dependence of the empirical relationship between volume and efficiency for Ge detectors (*Letter to the Editor*) A302 (1991) 388
Pascarelle, S.M., see Owens, A. A310 (1991) 681
Pashkov, S.D., see Artemiev, A.N. A308 (1991) 61
Pasos, J., see Cameron, J.M. A305 (1991) 257
Pasquali, G., G. Poggi, M. Bini, N. Taccetti and G. Prete, A semiconductor–scintillator telescope using a single silicon diode A301 (1991) 101
Passamonti, L., see Bianco, S. A301 (1991) 279
Passamonti, L., see Bianco, S. A305 (1991) 48
Pastor, C., see Chambon, B. A307 (1991) 333
Pastor, C., see Désesquelles, P. A307 (1991) 366
Pastore, F., see Acosta, D. A302 (1991) 36
Pastore, F., see Acosta, D. A305 (1991) 55
Pastore, F., see Acosta, D. A308 (1991) 481
Pastore, F., see Acosta, D. A309 (1991) 143
Patchett, B.E., see Carter, M.K. A310 (1991) 305
Pate, S.F., see Pitts, W.K. A302 (1991) 382
Patel, G.D., see Grässler, H. A310 (1991) 535
Patel, P., see ZEUS Calorimeter Group A309 (1991) 101
Pater, J., see Atwood, W.B. A306 (1991) 446
Paticchio, V., G. D'Erasmo, E.M. Fiore, L. Fiore, N. Grion, G. Guarino, A. Pantaleo and R. Rui, Efficiency measurements of large volume organic scintillator counters to neutrons of energy from 54 to 360 MeV . . . A305 (1991) 150
Patočka, J., see Alekseev, G.D. A305 (1991) 344
Patteri, P., see Castellano, M. A304 (1991) 204
Pattison, P., see Laundy, D. A302 (1991) 553
Paul, M., see Berkovits, D. A302 (1991) 379
Paulot, C., see Fréjus Collaboration A302 (1991) 406
Pauwels, J., see Tagziria, H. A303 (1991) 123
Pauwels, J., R. Eykens, A. Lamberty, J. Van Gestel, H. Tagziria, R.D. Scott, J. Byrne, P.G. Dawber and D.M. Gilliam, The preparation and characterisation of ^{6}LiF and ^{10}B reference deposits for the measurement of the neutron lifetime A303 (1991) 133
Pauwels, J., see Eykens, R. A303 (1991) 152
Pavlov, O.V., see Barkov, A.V. A308 (1991) 70
Pawley, S.J., see Allison, J. A310 (1991) 527
Pazzi, R., see Baldini, A. A305 (1991) 475
Peak, L.S. and P. Soler, Assessment of the photoelectron number for photomultipliers under conditions of low light intensities A301 (1991) 341

Pearson, J.F., see Fraser, G.W. A306 (1991) 247
Pearson, J.F., see Fraser, G.W. A310 (1991) 292
Pedereau, O., see Fréjus Collaboration A302 (1991) 406
Pedrini, D., see Bellini, G. A305 (1991) 395
Pedroni, P., see Audit, G. A301 (1991) 473
Peetermans, F., see Ingelbrecht, C. A303 (1991) 119
Pei, Y.J., see Adriani, O. A302 (1991) 53
Pelfer, P., see Alvisi, C. A305 (1991) 30
Pelgrom, M.J.M., Matching properties of MOS transistors A305 (1991) 624
Pellegrini, C. and D. Robin, Quasi-isochronous storage ring A301 (1991) 27
Pellegrini, C., see Aghamir, F. A304 (1991) 155
Pellegrino, A., see Steijger, J. A310 (1991) 513
Penchev, L., see Ableev, V.G. A306 (1991) 73
Pendergast, K.D., B.G. Danly and R.J. Temkin, Operation of a long-pulse CARM oscillator A304 (1991) 121
Pendlebury, J.M., see Richardson, D.J. A308 (1991) 568
Pengo, R., P. Favaron, G. Manente, A. Cecchi and L. Pieraccini, The reduction of rare earth oxides to metal and their subsequent rolling A303 (1991) 146
Penman, C., see van der Slot, P.J.M. A304 (1991) 268
Penman, C., see Elgin, J.N. A304 (1991) 444
Pennacchio, E., see Acosta, D. A309 (1991) 143
Penner, S., see Debenham, P.H. A304 (1991) 208
Penso, G., see WA84 Collaboration A310 (1991) 485
Pensotti, S., see Borchi, E. A301 (1991) 215
Penttilä, H., see Parmonen, J.M. A306 (1991) 504
Penttilä, S., see Garnett, R. A309 (1991) 508
Penzhorn, R.-D., see Engelmann, U. A302 (1991) 345
Peoples Jr., J., see Bartoszek, L. A301 (1991) 47
Pepato, A., see Bettini, A. A305 (1991) 177
Pepe, M., see RD3 Collaboration A309 (1991) 438
Perasso, L., see Bianco, S. A305 (1991) 48
Perchiazzi, M., see Bellotti, R. A305 (1991) 192
Perderau, O., see Cizeron, R. A307 (1991) 286
Pereira, M., see Acosta, D. A302 (1991) 36
Pereira, M., see Acosta, D. A305 (1991) 55
Peresypkin, A.I., see Kobayashi, M. A302 (1991) 443
Peresypkin, A.I., see Golovkin, S.V. A305 (1991) 385
Peresypkin, A.I., see Britvich, G.I. A308 (1991) 509
Peresypkin, A.I., see Denisov, A.G. A310 (1991) 479
Perez, J.M., see Olmos, P. A302 (1991) 91
Perez de los Heros, C., see Andersen, E. A301 (1991) 69
Perez-Mendez, V., see Xi, J. A301 (1991) 219
Perez-Mendez, V., see Drewery, J.S. A310 (1991) 165
Perez-y-Jorba, J., see Buon, J. A306 (1991) 93
Perillo Isaac, M.C., see Czapek, G. A306 (1991) 572
Perret-Gallix, D., see Czapek, G. A306 (1991) 572
Perrett, J.C., see Walker, A. A301 (1991) 574
Perrier, J., see Béné, P. A306 (1991) 150
Perrier, J., see Adeva, B. A309 (1991) 318
Pershing, D.E., R.H. Jackson, H. Bluem and H.P. Freund, Improved amplifier performance of the NRL ubitron A304 (1991) 127
Persson, A., see Werin, S. A304 (1991) 81
Peruzzo, L., see Bartoli, B. A302 (1991) 515
Peruzzo, L., see Cresti, M. A306 (1991) 563
Pésci, A., see Cresti, M. A306 (1991) 563
Pesen, E., see Bähr, J. A306 (1991) 169
Peskov, V., see Fonte, P. A305 (1991) 91
Peskov, V., see Charpak, G. A307 (1991) 63
Peskov, V., see Imrie, D.C. A310 (1991) 122
Peskov, V., see Charpak, G. A310 (1991) 128
Peskov, V., see Fonte, P. A310 (1991) 140
Pessina, G., see RD3 Collaboration A309 (1991) 438

Pesterev, S.G., see Artemiev, A.N. . . . A308 (1991) 61
Pestov, Yu.N., see Frolov, A.R. . . . A307 (1991) 497
Petereit, E., see Derrick, M. . . . A309 (1991) 77
Peterson, E.J., see Muenchausen, R.E. . . . A303 (1991) 204
Petković, T., see Backenstoss, G. . . . A310 (1991) 518
Petrenko, S.V., see Denisov, A.G. . . . A310 (1991) 479
Petrera, S., see WA84 Collaboration . . . A310 (1991) 485
Pétroff, P., see RD3 Collaboration . . . A309 (1991) 438
Petroff, Y., see Prazeres, R. . . . A304 (1991) 72
Petrolo, E., see Bacci, C. . . . A301 (1991) 445
Petrolo, E., see UA1 Collaboration . . . A305 (1991) 331
Petrov, S.P., see Anashin, V.V. . . . A308 (1991) 45
Petrov, V.M., see Gavrilov, N.G. . . . A304 (1991) 228
Petrov, V.M., see Anashin, V.V. . . . A308 (1991) 45
Petrucci, G., see Coc, A. . . . A305 (1991) 143
Petukhov, Yu.P., see Denisov, A.G. . . . A310 (1991) 479
Pevchev, Yu.F., see Alexandrov, A.A. . . . A303 (1991) 323
Pevsner, A., see Akbari, H. . . . A302 (1991) 415
Pfennig, J., see Shank, J.T. . . . A309 (1991) 377
Phillips, C.C., see Spooner, N.J.C. . . . A310 (1991) 227
Piano Mortari, G., see Bettini, A. . . . A305 (1991) 177
Piano-Mortari, G., see UA1 Collaboration . . . A305 (1991) 331
Picardi, L., P. Raimondi and C. Ronsivalle, Study of the electromagnetic fields in an electron RFQ structure . . . A303 (1991) 209
Picchi, P., see Bilokon, H. . . . A303 (1991) 381
Picchi, P., see Bettini, A. . . . A305 (1991) 177
Picozza, P., see Brunetti, M.T. . . . A302 (1991) 362
Picozza, P., see Mazzaschi, L. . . . A305 (1991) 391
Picozza, P., see Golden, R.L. . . . A306 (1991) 366
Picozza, P.G., see Babusci, D. . . . A305 (1991) 19
Piekarz, J., see Bross, A.D. . . . A307 (1991) 35
Pieraccini, L., see Pengo, R. . . . A303 (1991) 146
Pieri, M., see Adriani, O. . . . A302 (1991) 53
Pieri, M., see Adeva, B. . . . A309 (1991) 318
Pierini, P., see McNeil, B.W.J. . . . A304 (1991) 411
Pierini, P., W.M. Fawley and W.M. Sharp, Multidimensional simulations of the ELFA superradiant free electron laser . . . A304 (1991) 644
Pietropaolo, F., see Bettini, A. . . . A305 (1991) 177
Piilonen, L., see Armijo, V. . . . A303 (1991) 298
Pilastrini, R., see Alvisi, C. . . . A305 (1991) 30
Pilastrini, R., see Bianco, S. . . . A305 (1991) 48
Pilgram, W., see Grässler, H. . . . A310 (1991) 535
Pilipenko, Yu.K., see Ableev, V.G. . . . A306 (1991) 73
Pillai, C., see Holmes, R. . . . A303 (1991) 226
Pinaev, I.V., see Couprie, M.E. . . . A304 (1991) 47
Pinaev, I.V., see Couprie, M.-E. . . . A308 (1991) 39
Pinault, J.L., Use of new spectral analysis methods in gamma spectra deconvolution . . . A305 (1991) 462
Pinayev, I.V., see Gavrilov, N.G. . . . A304 (1991) 63
Pinayev, I.V., see Gavrilov, N.G. . . . A304 (1991) 228
Pinayev, I.V., A.S. Sokolov and N.A. Vinokurov, Method of operative control of the radius of curvature and reflection losses of optical cavity mirrors . . . A304 (1991) 786
Pinayev, I.V., see Gavrilov, N.G. . . . A308 (1991) 109
Pindroh, A.L., see Gottschalk, S.C. . . . A304 (1991) 732
Pindyurin, V.F., see Dementyev, E.N. . . . A308 (1991) 352
Pindyurin, V.F., see Dolbnya, I.P. . . . A308 (1991) 416
Pindyurin, V.F., see Barsukov, V.P. . . . A308 (1991) 419
Pinelli, T., see Audit, G. . . . A301 (1991) 473
Pinfold, J.L., P.B. Price, P. Le Du, K. Kinoshita, H. Gao, R. Humbert, G. Rieth, J. Schwarz, T. Hilse, B. Lorazo and M. Regimbald, Detector for magnetic monopoles at OPAL . . . A302 (1991) 434
Pingot, O., see Buytaert, J. . . . A310 (1991) 596
Pinhasi, Y. and A. Gover, Gain analysis of a strong-pump FEL operating at the fundamental and high harmonics . . . A304 (1991) 481

Piovella, N., see Warren, R.W. A304 (1991) 696
Pisarzyk, T., see Alexandrov, Yu.M. A308 (1991) 340
Pisharody, M., see Bebek, C. A302 (1991) 261
Piskunov, N.M., see Ableev, V.G. A306 (1991) 73
Pistoresi, D., see Dowell, D.H. A304 (1991) 1
Pistoresi, D., see Laucks, M.L. A304 (1991) 25
Pitatelev, M.M., see Varfolomeev, A.A. A304 (1991) 507
Pitts, W.K., J.S. Price, S.F. Pate, B. von Przewoski, T. Rinckel and F. Sperisen, Low energy charged particle detection in a light-ion storage ring (*Letter to the Editor*) A302 (1991) 382
Pitzl, D., see Hylen, J. A310 (1991) 497
Pitzl, D., see Sadrozinski, H.F.-W. A310 (1991) 557
Piuz, F., see Francke, T. A307 (1991) 47
Piuz, F., see Francke, T. A310 (1991) 146
Placci, A., see Bacci, C. A301 (1991) 445
Placci, A., see UA1 Collaboration A305 (1991) 331
Pla-Dalmau, A., see Bross, A.D. A307 (1991) 35
Plaga, R. and T. Kirsten, Reduction of degraded events in miniaturized proportional counters A309 (1991) 560
Plaga, R., Silicon for ultra-low-level detectors and ^{32}Si (*Letter to the Editor*) A309 (1991) 598
Plo, M., see Andersen, E. A301 (1991) 69
Plouviez, E., see Bourdon, J.C. A304 (1991) 322
Pluygers, J., see van Amersfoort, P.W. A304 (1991) 163
Plyasheshnikov, A.V., see Aharonian, F.A. A302 (1991) 522
Plyaskin, V., see Adriani, O. A302 (1991) 53
Podshibyakin, S.L., see Alexandrov, A.A. A302 (1991) 478
Podshibyakin, S.L., see Alexandrov, A.A. A303 (1991) 323
Podshibyakin, V.D., see Artemiev, A.N. A308 (1991) 459
Poffenberger, P.R., see Astbury, A. A305 (1991) 376
Poggi, G., see Pasquali, G. A301 (1991) 101
Poggioli, L., see Acosta, D. A302 (1991) 36
Poggioli, L., see Acosta, D. A305 (1991) 55
Poggioli, L., see Acosta, D. A308 (1991) 481
Poggioli, L., see Acosta, D. A309 (1991) 143
Pohlen, J., see Adams, T. A306 (1991) 128
Poiret, C., see Buytaert, J. A310 (1991) 596
Poirier, J., see Gress, J. A302 (1991) 368
Poirier, J., see Lu, Y. A307 (1991) 425
Pojidaev, V., see Adriani, O. A302 (1991) 53
Polenz, S., see Feuerstack, M. A310 (1991) 287
Polesello, G., see Acosta, D. A302 (1991) 36
Polesello, G., see Acosta, D. A308 (1991) 481
Polesello, G., see RD3 Collaboration A309 (1991) 438
Polli, E., see Mazzaschi, L. A305 (1991) 391
Pollmann, D., see Atwood, W.B. A306 (1991) 446
Polushin, V.B., see Nikolaev, Yu.M. A306 (1991) 343
Polushkin, V.G., see Buchmann, L. A306 (1991) 413
Polychronakos, V.A., see Shank, J.T. A309 (1991) 377
Pomerantz, M.A., see Walker, A. A301 (1991) 574
Ponedelko, V.N., see Veshcherevich, V.G. A308 (1991) 102
Pontecorvo, L., see Bacci, C. A301 (1991) 445
Pontecorvo, L., see UA1 Collaboration A305 (1991) 331
Pontonnier, M., see Delaunay, M. A305 (1991) 223
Popescu, D.G., see Wei, J.X. A306 (1991) 557
Popik, V.M., see Couprie, M.E. A304 (1991) 47
Popik, V.M., see Gavrilov, N.G. A304 (1991) 63
Popik, V.M., see Couprie, M.-E. A308 (1991) 39
Popik, V.M., see Gavrilov, N.G. A308 (1991) 109
Pordes, S.H., see Bartoszek, L. A301 (1991) 47
Poropat, P., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Porter, F.C., Luminosity lifetime at an asymmetric e^+e^- collider A302 (1991) 209
Posello, G., see Acosta, D. A309 (1991) 143
Poser, T., see ZEUS Calorimeter Group A309 (1991) 101

Potekhin, M., see Shank, J.T. A309 (1991) 377
Pothier, E., see Bromberg, C. A307 (1991) 292
Poulsen, J.M., R. Verbeni and F. Frontera, Position-sensitive scintillation detector for hard X-rays A310 (1991) 398
Povh, B., see Feuerstack, M. A310 (1991) 287
Powell, B., see Andersen, E. A301 (1991) 69
Powers, R., see Audit, G. A301 (1991) 473
Pozzo, A., see Lagomarsino, V. A307 (1991) 309
Pranal, Y., see Dei-Cas, R. A304 (1991) 215
Pranal, Y., see Binet, A. A304 (1991) 707
Prange, K., see ZEUS Calorimeter Group A309 (1991) 101
Prati, P., see Ricco, G. A307 (1991) 374
Pravdivtseva, T.L., see Basov, Yu.A. A308 (1991) 363
Prazeres, R., see Couprie, M.E. A304 (1991) 53
Prazeres, R., P. Guyot-Sionnest, J.M. Ortega, D. Jaroszynski, M. Billardon, M.E. Couprie, M. Velghe and Y. Petroff, Coherent harmonic generation in VUV with the optical klystron on the storage ring Super-ACO . A304 (1991) 72
Prebys, E., see Bromberg, C. A307 (1991) 292
Prechtel, U., see Klein, P. A305 (1991) 517
Prestwich, W.V., see Moreh, R. A309 (1991) 503
Prete, G., see Pasquali, G. A301 (1991) 101
Prete, G., see Chambon, B. A307 (1991) 333
Pretzl, K., see Czapek, G. A306 (1991) 572
Price, E.J., J.E. Walsh and M.F. Kimmitt, Short submillimeter operation of the Planar Orotron A304 (1991) 133
Price, J.S., see Pitts, W.K. A302 (1991) 382
Price, L., see Job, P.K. A309 (1991) 60
Price, M., see Atwood, W.B. A306 (1991) 446
Price, M.J., see Shank, J.T. A309 (1991) 377
Price, P.B., see Pinfold, J.L. A302 (1991) 434
Primachek, V.V., see Frolov, A.R. A307 (1991) 497
Pritchard, T.W., see Allport, P.P. A310 (1991) 155
Procida Veissid, V.L.C., G. Kenchian and M.T.F. da Cruz, Experimental solid-angle correction for gamma angular correlations A309 (1991) 222
Produit, N., see Béné, P. A306 (1991) 150
Prokofiev, O.E., see Vorobyov, A.A. A301 (1991) 167
Prokoshkin, Yu.D., see Kobayashi, M. A302 (1991) 443
Prosperi, D., see Belli, P. A310 (1991) 150
Prosvetov, V.K., see Artemiev, A.N. A308 (1991) 61
Proudfoot, J., see Job, P.K. A309 (1991) 60
Pruneau, C., see Galindo-Uribarri, A. A301 (1991) 457
Ptohos, F., see Geer, S. A301 (1991) 61
Pudonin, F.A., see Mitrofanov, A.V. A308 (1991) 347
Puertolas, D., see D'Ambrosio, C. A307 (1991) 430
Pugh, G.M., see Gabutti, A. A306 (1991) 220
Puglierin, G., see Cavestro, A. A305 (1991) 488
Pun, C. and T. Ferbel, Monte Carlo studies of response of a liquid argon calorimeter with lead absorber A302 (1991) 285
Punch, M. and D.J. Fegan, Real-time image parameterization in high energy γ-ray astronomy using transputers A302 (1991) 508
Purans, J., see Balerna, A. A308 (1991) 234
Purans, J., see Balerna, A. A308 (1991) 240
Pustovarov, V.A., T.A. Betenekova, E.I. Zinin and A.L. Rogalev, Optical spectroscopy of free and bound excitons in lithium hydride crystals excited with synchrotron radiation A308 (1991) 203
Puzo, P., see Buon, J. A306 (1991) 93
Pyatkov, Y.V., see Alexandrov, A.A. A302 (1991) 478
Pyatkov, Yu.V., see Alexandrov, A.A. A303 (1991) 323
Pyrlik, J., see Lau, K. A306 (1991) 397
Pyshchev, A.I., see Golovkin, S.V. A305 (1991) 385
Pywell, R.E., see Clayton, J. A305 (1991) 116

Qian, S., see Alvisi, C. A305 (1991) 30
Qian Wenguo, see Zhang Yingji A302 (1991) 76
Qingyi, Z., see Huashun, Z. A307 (1991) 167
Quareni, A., see WA82 Collaboration A309 (1991) 401

Quayle, J.A., see Allinson, N.M. A310 (1991) 267
Quenby, J.J., see Spooner, N.J.C. A310 (1991) 227
Quimby, D.C., see Elliott, C.J. A304 (1991) 725
Quimby, D.C., see Gottschalk, S.C. A304 (1991) 732
Quinn, B., see Andersen, E. A301 (1991) 69
Quintas, P.Z., see King, B.J. A302 (1991) 254
Quon, B., see Lazar, N.H. A304 (1991) 243
Qureshi, K., see Adriani, O. A302 (1991) 53

Rabinowitz, S.A., see King, B.J. A302 (1991) 254
Radack, D.J., see Bidwell, S.W. A304 (1991) 187
Radeka, V., see Shank, J.T. A309 (1991) 377
Radermacher, E., see Bacci, C. A301 (1991) 445
Radermacher, E., see UA1 Collaboration A305 (1991) 331
Raffanti, R., see Siegmund, O.H.W. A310 (1991) 311
Raghavan, R., see Adriani, O. A302 (1991) 53
Raiko, V.I. and A.W. Thompson, Report on the raytracing of a focussing mirror for a PX station on the storage ring "SIBERIA-2" A308 (1991) 409
Raiko, V.I., see Kusev, S.V. A308 (1991) 464
Raimondi, P., see Picardi, L. A303 (1991) 209
Ramadan, B., see Lolos, G.J. A309 (1991) 552
Ramian, G., see Colson, W.B. A304 (1991) 822
Ramil, A., see Andersen, E. A301 (1991) 69
Ramsay, W.D., see Abegg, R. A306 (1991) 432
Ramsay, W.D., see Berdoz, A.R. A307 (1991) 26
Ramsden, D., see Mullerworth, S.D. A310 (1991) 179
Ramsden, D., see Bird, A.J. A310 (1991) 332
Ramsey, B.D., see Sakurai, H. A307 (1991) 504
Rancoita, P.G., see Borchi, E. A301 (1991) 215
Randaccio, P., see Bencivelli, W. A305 (1991) 574
Randaccio, P., see Bencivelli, W. A310 (1991) 210
Rapidis, P.A., see Bartoszek, L. A301 (1991) 47
Raselli, G.L., see Calligarich, E. A307 (1991) 142
Rask, A., see Garnett, R. A309 (1991) 508
Ratner, L.G., see Lee, S.Y. A306 (1991) 51
Rattaggi, M., see Borchi, E. A301 (1991) 215
Ratti, S.P., see Bianco, S. A305 (1991) 48
Raubenheimer, T.O. and R.D. Ruth, A dispersion-free trajectory correction technique for linear colliders . . . A302 (1991) 191
Raubenheimer, T.O., A new technique of correcting emittance dilutions in linear colliders A306 (1991) 61
Raupach, F., see Fréjus Collaboration A302 (1991) 406
Raviart, P.A., see Adolf, A. A304 (1991) 297
Rawool-Sullivan, M.W., see Simon-Gillo, J. A309 (1991) 427
Ray, A., see Simon-Gillo, J. A309 (1991) 427
Ray, R., J.L. Rosen, M. Masuzawa and J. Zhao, A trigger for the Fermilab E760 lead-glass calorimeter A307 (1991) 254
Ray, R.E., see Bartoszek, L. A301 (1991) 47
Raymond, D.M., see Sanghera, B. A310 (1991) 455
Raymond, D.M., A.J. Lewis, G. Hall and P.H. Sharp, A prototype pixel readout chip for asynchronous detection applications A310 (1991) 552
Raymond, R.S., see Roser, T. A301 (1991) 42
Razina, G.K., see Epp, V.Ya. A307 (1991) 562
RD3 Collaboration, B. Aubert, A. Bazan, F. Cavanna, J. Colas, T. Leflour, J.P. Vialle, L. Baisin, J.C. Berset, C.W. Fabjan, D. Fournier, O. Gildemeister, P. Jenni, M. Lefebvre, C.P. Marin, M. Nessi, F. Nessi-Tedaldi, M. Pepe, G. Polesello, W. Richter, A. Sigrist, W.J. Willis, D.V. Camin, G. Costa, F. Gianotti, L. Mandelli, G. Pessina, L. Iconomidou-Fayard, B. Merkel, P. Pétroff and J.P. Repellin, Performance of a liquid argon electromagnetic calorimeter with an "accordion" geometry A309 (1991) 438
Ré, C., see Bourgeois, P. A301 (1991) 150
Read, F.H., see Page, S.C. A309 (1991) 594
Read, P.D., see Carter, M.K. A310 (1991) 305
Rebourgeard, P., see Blumenfeld, H. A309 (1991) 169
Redaelli, N., see WA82 Collaboration A309 (1991) 401
Reddy, L.V., see Adarkar, H. A308 (1991) 574

Redwine, R.P., see Backenstoss, G. A310 (1991) 518
Reffo, G., M.H. Mac Gregor and T. Komoto, Fast-neutron-induced cross sections on ^{20}Ne A307 (1991) 380
Regimbald, M., see Pinfold, J.L. A302 (1991) 434
Regler, M., see Andersen, E. A301 (1991) 69
Rehak, P., see Vacchi, A. A306 (1991) 187
Rehm, K.E., see Scarlassara, F. A309 (1991) 485
Reid, J.D., see Bartoszek, L. A301 (1991) 47
Reid, R., see Hylen, J. A310 (1991) 497
Reike, H., see Hartmann, J. A305 (1991) 366
Reinartz, R., see Heiderich, M. A305 (1991) 423
Reininger, R., see De Castro, A.R.B. A307 (1991) 135
Reiser, M., see Wang, J.G. A301 (1991) 19
Reiser, M., see Wang, J.G. A307 (1991) 190
Renieri, A., see Ciocci, F. A304 (1991) 17
Renieri, A., see Castellano, M. A304 (1991) 204
Renieri, A., see Bartolini, R. A304 (1991) 417
Renieri, A., see Barbagelata, L. A304 (1991) 703
Renieri, A., Plasma heating by FEL devices A304 (1991) 804
Rentsch, D., see Shapira, D. A301 (1991) 76
Renz, G., see Spindler, G. A304 (1991) 492
Reolon, A.R., see Mazzaschi, L. A305 (1991) 391
Repellin, J.P., see RD3 Collaboration A309 (1991) 438
Repond, J., see Derrick, M. A309 (1991) 77
Reucroft, S., see Akbari, H. A302 (1991) 415
Revol, J.P., see UA1 Collaboration A305 (1991) 331
Rewiersma, P., see Van der Graaf, H. A307 (1991) 220
Reymond, J.M., see Aleksan, R. A305 (1991) 512
Reynolds, P.T., see Walker, A. A301 (1991) 574
Ribeiro, R., see Francke, T. A307 (1991) 47
Ribeiro, R., see Francke, T. A310 (1991) 146
Riccardi, F., see Acosta, D. A305 (1991) 55
Riccardi, F., see Acosta, D. A308 (1991) 481
Riccardi, F., see Acosta, D. A309 (1991) 143
Ricci, M., see Golden, R.L. A306 (1991) 366
Ricco, G., see Mazzaschi, L. A305 (1991) 391
Ricco, G., M. Anghinolfi, P. Corvisiero, E. Durante, S. Maggiolo, P. Prati, A. Rottura and M. Taiuti, A large solid angle multiparameter neutron detector A307 (1991) 374
Ricco, G., see Gervino, G. A309 (1991) 497
Richardson, D.J., J.M. Pendlebury, P. Iaydjiev, W. Mampe, K. Green and A.I. Kilvington, Measurement of the energy dependence of the neutron loss per bounce function on reflection from oil and grease surfaces using monochromatic ultracold neutrons A308 (1991) 568
Richardson, J.M., T.E. Chupp, R.G.H. Robertson and J.F. Wilkerson, A calorimeter for neutron flux measurement A306 (1991) 291
Richardson Jr., J.W., see Carpenter, J.M. A301 (1991) 305
Richaud, J.P., Production of high-purity self-supporting carbon foils in a large thickness range A303 (1991) 46
Richeux, J-P., see Béné, P. A306 (1991) 150
Richter, A., see Alrutz-Ziemssen, K. A304 (1991) 159
Richter, A., see Alrutz-Ziemssen, K. A304 (1991) 300
Richter, R., see Klein, P. A305 (1991) 517
Richter, R., see Atwood, W.B. A306 (1991) 446
Richter, W., see Atwood, W.B. A306 (1991) 446
Richter, W., see RD3 Collaboration A309 (1991) 438
Ricken, L. and T. Kozlowski, A beam counter for intense muon beams A305 (1991) 232
Řidký, J., see Alekseev, G.D. A305 (1991) 344
Riekel, C., see Barbosa, A.F. A302 (1991) 489
Rieth, G., see Pinfold, J.L. A302 (1991) 434
Riggi, F., see Badalá, A. A306 (1991) 283
Riggi, F., see Anzalone, A. A308 (1991) 533
Riikonen, K., see Iivonen, A. A307 (1991) 69
Rijken, H.A., S.S. Klein and M.J.A. de Voigt, Subnanosecond timing with semiconductor position sensitive detectors A310 (1991) 171

Rimoldi, A., see Acosta, D. . . . A308 (1991) 481
Rimoldi, A., see Acosta, D. . . . A309 (1991) 143
Rinaldi, D., see Allegretti, F. . . . A302 (1991) 455
Rinaudo, G., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Rinckel, T., see Pitts, W.K. . . . A302 (1991) 382
Rindby, A., see Engström, P. . . . A302 (1991) 547
Ripamonti, G., S. Cova, M. Ghioni, M. Mastrapasqua and S. Vanoli, $(PS)^2$: a new semiconductor device for Position-Sensitive Picosecond detection of Single optical photons . . . A310 (1991) 184
Ripani, M., see Mazzaschi, L. . . . A305 (1991) 391
Ristori, L., see Bartoli, B. . . . A302 (1991) 515
Ritz, S., see ZEUS Calorimeter Group . . . A309 (1991) 101
Riyopoulos, S., Mode competition and long time recurrence in low gain FEL oscillators . . . A304 (1991) 564
Robbins, M., see Acton, P. . . . A305 (1991) 504
Robertson, L.P., see Astbury, A. . . . A305 (1991) 376
Robertson, M., see Vander Molen, A. . . . A307 (1991) 116
Robertson, R.G.H., see Richardson, J.M. . . . A306 (1991) 291
Robertson, W.J., see Oh, S.H. . . . A303 (1991) 277
Robertson, W.J., see Oh, S.H. . . . A309 (1991) 368
Robin, D., see Pellegrini, C. . . . A301 (1991) 27
Robinson, D., see Bacci, C. . . . A301 (1991) 445
Robinson, D., see UA1 Collaboration . . . A305 (1991) 331
Robinson, K.E., see Gottschalk, S.C. . . . A304 (1991) 732
Robinson, R.A. and J.M. Carpenter, On the use of switch functions in describing pulsed neutron moderators . A307 (1991) 359
Roche, M., see Moret-Bailly, J. . . . A304 (1991) 248
Roche, M. and J. Moret-Bailly, SIRIUS FEL project . . . A304 (1991) 255
Rochester, G.K., see Roe, S. . . . A310 (1991) 192
Roda, C.M.A., see WA84 Collaboration . . . A310 (1991) 485
Rodier, J., see Bourdon, J.C. . . . A304 (1991) 322
Rodning, N.L., see Cameron, J.M. . . . A305 (1991) 257
Rodning, N.L., see Abegg, R. . . . A306 (1991) 432
Rodrigo, T., see Bacci, C. . . . A301 (1991) 445
Rodrigo, T., see UA1 Collaboration . . . A305 (1991) 331
Roe, B.P., see Adriani, O. . . . A302 (1991) 53
Roe, S., T.J. Sumner, G.K. Rochester, G. Hall, L. Evensen and B.S. Avset, Temperature dependence of the behaviour of silicon drift detectors . . . A310 (1991) 192
Roe, S., see Avset, B.S. . . . A310 (1991) 203
Roehn, S., see Atwood, W.B. . . . A306 (1991) 446
Rogalev, A.L., see Pustovarov, V.A. . . . A308 (1991) 203
Rogalev, A.L., see Drobyazko, I.B. . . . A308 (1991) 243
Rogers, D.W.O., see Faddegon, B.A. . . . A301 (1991) 138
Rohde, M., see ZEUS Calorimeter Group . . . A309 (1991) 101
Röhlsberger, R., see Rüffer, R. . . . A303 (1991) 495
Rohner, M., see Adriani, O. . . . A302 (1991) 53
Rohringer, H., see Andersen, E. . . . A301 (1991) 69
Röjsel, P., A racetrack microtron for free electron laser use . . . A304 (1991) 258
Rolandi, L., see Atwood, W.B. . . . A306 (1991) 446
Rolfs, C., see Smith, M.S. . . . A306 (1991) 233
Rollin, G., see Wattecamps, E. . . . A309 (1991) 209
Romanjuk, A., see Shank, J.T. . . . A309 (1991) 377
Romanowski, T., see ZEUS Calorimeter Group . . . A309 (1991) 101
Romanowski, T.A., see Bylsma, B.G. . . . A305 (1991) 354
Romero, A., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Romero, J.L., G.A. Needham, F.P. Brady, C.M. Castaneda and T.D. Ford, The response of NaI(Tl) to 30–60 MeV $Z = 1$ particles . . . A301 (1991) 241
Rongoni, E., see Brunetti, M.T. . . . A302 (1991) 362
Ronkainen, H., see Hietanen, I. . . . A301 (1991) 116
Ronkainen, H., see Hietanen, I. . . . A305 (1991) 173
Ronkainen, H., see Hietanen, I. . . . A310 (1991) 671
Ronkainen, H., see Hietanen, I. . . . A310 (1991) 677
Ronsivalle, C., see Picardi, L. . . . A303 (1991) 209
Ros, E., see Del Peso, J. . . . A306 (1991) 485

Ros, E., see ZEUS Calorimeter Group A309 (1991) 101
Rosatelli, F., see Barbagelata, L. A304 (1991) 703
Rose, J., see Akbari, H. A302 (1991) 415
Rose, J., see Adeva, B. A309 (1991) 318
Rosen, J.L., see Bartoszek, L. A301 (1991) 47
Rosen, J.L., see Ray, R. A307 (1991) 254
Roser, R., see Bromberg, C. A307 (1991) 292
Roser, T., D.G. Crabb, W.A. Kaufman, R.S. Raymond, J.A. Stewart, B. Vuaridel and G.R. Court, Microwave driven extraction of stabilized spin polarized atomic hydrogen A301 (1991) 42
Ross, A., see Schiemenz, P. A305 (1991) 15
Ross, C.K., see Faddegon, B.A. A301 (1991) 138
Ross, W., H. Attias, K. Barger, G. Kalbfleisch, D. Kaplan, P. Karchin, J. Kuehler, M. Lambrecht, E. McCliment, J. Sinnott, P. Skubic and S. Utku, Beam tests of silicon microstrip detectors with VLSI readout A310 (1991) 493
Rossa, H.J., see Neissendorfer, F. A308 (1991) 276
Rossbach, J., Positron recycling in high energy linear colliders A309 (1991) 25
Rosselet, L., see Iżycki, M. A310 (1991) 98
Rossi, E., see Labanti, C. A310 (1991) 327
Rossi, L., see WA82 Collaboration A309 (1991) 401
Rossi, P., see Bettini, A. A305 (1991) 177
Rossi, P., see Mazzaschi, L. A305 (1991) 391
Rossner, H., see Lehmann, M. A309 (1991) 530
Rosso, V., see Bencivelli, W. A305 (1991) 574
Rosso, V., see Bencivelli, W. A310 (1991) 210
Roth, A., see Atwood, W.B. A306 (1991) 446
Rotscheidt, H., see Atwood, W.B. A306 (1991) 446
Rottura, A., see Ricco, G. A307 (1991) 374
Roumeliotis, P., see Lau, K. A306 (1991) 397
Roveri, N., see Shah, J.S. A308 (1991) 285
Rowe, W.A., see Sadrozinski, H.F.-W. A310 (1991) 557
Rowntree, D., see Backenstoss, G. A310 (1991) 518
Roy, A., P.K. Dasgupta, A. Bandyopadhyay and S.K. De, An on-line data acquisition system based on a NORSK DATA ND-100 computer A303 (1991) 342
Roy, G., see Cameron, J.M. A305 (1991) 257
Roy, G., see Abegg, R. A306 (1991) 432
Roy, G., see Berdoz, A.R. A307 (1991) 26
Roy, N., see Lazar, N.H. A304 (1991) 243
Roy, Ph., see Fréjus Collaboration A302 (1991) 406
Roy, T., see Acton, P. A305 (1991) 504
Rubbia, C., see Bacci, C. A301 (1991) 445
Rubbia, C., see Bettini, A. A305 (1991) 177
Rubbia, C., see UA1 Collaboration A305 (1991) 331
Ruchti, R., see Bross, A.D. A307 (1991) 35
Rudolf, G., J.C. Adloff, B. Bilwes, R. Bilwes, F. Cosmo, M. Glaser, A. Kamili, F. Scheibling and L. Stuttgé, XYZt, a multidetector for fast intermediate-mass fragments A307 (1991) 325
Ruegg, R., see Buchmann, L. A306 (1991) 413
Rüffer, R., E. Gerdau, M. Grote, R. Hollatz, R. Röhlsberger, H.D. Rüter and W. Sturhahn, Nuclear Bragg diffraction using synchrotron radiation. A new method for hyperfine spectroscopy A303 (1991) 495
Rui, R., see Paticchio, V. A305 (1991) 150
Rullhusen, P., see Krause, K.-H. A310 (1991) 577
Rupasov, A.A., see Alexandrov, Yu.M. A308 (1991) 340
Rupasov, A.A., see Alexandrov, Yu.M. A308 (1991) 343
Ruschin, S., see Cohen, M. A304 (1991) 673
Ruschin, S., see Keselbrener, M. A304 (1991) 782
Russo, A.C., see Badalá, A. A306 (1991) 283
Russo, A.C., see Anzalone, A. A308 (1991) 533
Russo, G.V., see Fonte, R. A307 (1991) 80
Russo, P., see Bencivelli, W. A305 (1991) 574
Russo, P., see Del Guerra, A. A306 (1991) 378
Russo, P., see Bencivelli, W. A310 (1991) 210
Russo, V., see Bianco, S. A301 (1991) 279
Russo, V., see Bianco, S. A305 (1991) 48

Rüter, H.D., see Rüffer, R. . . . A303 (1991) 495
Ruth, R.D., see Raubenheimer, T.O. . . . A302 (1991) 191
Ružička, J., see Zrelov, V.P. . . . A302 (1991) 301
Ryabtsov, V.D., see Alekseev, G.D. . . . A305 (1991) 344
Rybakov, V.N., see Artemiev, A.N. . . . A308 (1991) 61
Rykalin, V.I., see Kobayashi, M. . . . A302 (1991) 443
Rykalin, V.I., see Abramov, A.A. . . . A302 (1991) 529
Rykalin, V.I., see Golovkin, S.V. . . . A305 (1991) 385
Rykalin, V.I., see Gorin, A.M. . . . A310 (1991) 251
Rykalin, V.I., see Denisov, A.G. . . . A310 (1991) 479
Rykalin, V.V., see Gorin, A.M. . . . A310 (1991) 251
Ryne, R.D., see Shay, H.D. . . . A304 (1991) 262
Ryzchikov, V.D., see Abramov, A.A. . . . A302 (1991) 529

Sabary, F., see Septier, A. . . . A304 (1991) 392
Sabia, E., see Castellano, M. . . . A304 (1991) 204
Sabia, E., see Barbagelata, L. . . . A304 (1991) 703
Sacchetti, A., see Bellotti, R. . . . A305 (1991) 192
Sack, A., see Badura, A. . . . A310 (1991) 441
Sadler, G., see Elevant, T. . . . A306 (1991) 331
Sadrozinski, H.F.-W., see Sonnenblick, R. . . . A310 (1991) 189
Sadrozinski, H.F.-W., J. Dewitt, D.E. Dorfan, B. Hubbard, K. O'Shaughnessy, D. Pitzl, W.A. Rowe, A. Seiden and E. Spencer, Radiation-hard front-end electronics for silicon microstrip detectors in ZEUS . . . A310 (1991) 557
Saettel, M.A., see Ernwein, R. . . . A303 (1991) 192
Sagan, D., Some aspects of the longitudinal motion of ions in electron storage rings . . . A307 (1991) 171
Saggion, A., see Cresti, M. . . . A306 (1991) 563
Sailor, W.C., H.-J. Ziock, W.W. Kinnison and K. Holzscheiter, A model for the performance of silicon microstrip detectors . . . A303 (1991) 285
Saint-Martin, J., see Désesquelles, P. . . . A307 (1991) 366
Saintola, R., see Iivonen, A. . . . A307 (1991) 69
Saito, H., see Sekita, H. . . . A304 (1991) 137
Saito, K., H. Tajima, M. Nakamura, K. Niwa and K. Yamamoto, Development and tests of double sided microstrip detectors . . . A310 (1991) 175
Saito, K., see Tajima, H. . . . A310 (1991) 504
Saito, T., Y. Fukada, Y. Hatano, T. Hara, R. Fujii, H. Oda, I. Yamamoto, M. Kusunose and H. Sasaki, Detection of primordial antimatter at the 10^{-7} level . . . A301 (1991) 568
Saito, T., see Baba, H. . . . A309 (1991) 236
Sajo-Bohus, L., see Bernasconi, G. . . . A307 (1991) 491
Sakabe, N., X-ray diffraction data collection system for modern protein crystallography with a Weissenberg camera and an imaging plate using synchrotron radiation . . . A303 (1991) 448
Sakae, T., see Koori, N. . . . A307 (1991) 581
Sakaguchi, A., see Sugitate, T. . . . A307 (1991) 265
Sakaguchi, H., see Matsuoka, N. . . . A305 (1991) 415
Sakai, H., see Matsuoka, N. . . . A305 (1991) 415
Sakai, H., see Shin, K. . . . A308 (1991) 609
Sakai, N., M. Ito, H. Kawata, T. Iwazumi, M. Ando, N. Shiotani, F. Itoh, Y. Sakurai and S. Nanao, Application of circularly polarized X-rays to magnetic Compton-scattering experiments . . . A303 (1991) 488
Sakamoto, K., see Shiho, M. . . . A304 (1991) 141
Sakamoto, N., see Noda, K. . . . A303 (1991) 215
Sakrejda, I., see Andersen, E. . . . A301 (1991) 69
Sakuda, M., see Haba, J. . . . A303 (1991) 346
Sakumoto, W.K., see King, B.J. . . . A302 (1991) 254
Sakuraba, Y., see Baba, H. . . . A309 (1991) 236
Sakurai, H., B.D. Ramsey and M.C. Weisskopf, High pressure xenon proportional counter up to 10 atm . . . A307 (1991) 504
Sakurai, Y., see Sakai, N. . . . A303 (1991) 488
Sala, S., see Bellini, G. . . . A305 (1991) 395
Sala-Grabar, A., see Bianco, S. . . . A305 (1991) 48
Saldin, E.L., E.A. Schneidmiller and M.V. Yurkov, Strict results of mode theory of a free electron laser with a plane Fabry–Pérot resonator . . . A307 (1991) 526
Saldin, E.L., E.A. Schneidmiller and M.V. Yurkov, Strict results of FEL amplifier theory with stepped electron beam profile . . . A307 (1991) 531

Salicio, J.M., see Bacci, C. . . . A301 (1991) 445
Salin, P., see Moreau, F. . . . A306 (1991) 309
Salomon, M., see Openshaw, R. . . . A307 (1991) 298
Salvato, B., see La Monaca, A. . . . A310 (1991) 403
Salvatori, I., see Brunetti, M.T. . . . A302 (1991) 362
Salvatori, I., see Golden, R.L. . . . A306 (1991) 366
Samorukov, M.M., see Artemiev, A.N. . . . A308 (1991) 61
Sampietro, M., see Vacchi, A. . . . A306 (1991) 187
Samsonov, S., see Kovalchuk, M.V. . . . A308 (1991) 1
Sanchez del Rio, M. and F. Cerrina, BENT – software for ray-tracing of X-rays on bent oblique-cut crystals: a comment . . . A301 (1991) 589
Sandler, P.H., see King, B.J. . . . A302 (1991) 254
Sandoval, J., see Armijo, V. . . . A303 (1991) 298
Sandrelli, G., see Calligarich, E. . . . A307 (1991) 142
Sanelli, C., see Castellano, M. . . . A304 (1991) 204
Sanghera, B., D.M. Raymond, G. Hall and R.J. Ott, Digital beta autoradiography using silicon microstrip detectors . . . A310 (1991) 455
Sankey, D.P.C., see Grässler, H. . . . A310 (1991) 535
Sano, H., see Ejiri, H. . . . A302 (1991) 304
Sansen, W., see Chang, Z.Y. . . . A305 (1991) 553
Santos, F.P., see Dias, T.H.V.T. . . . A307 (1991) 341
Santos, F.P., T.H.V.T. Dias, A.D. Stauffer and C.A.N. Conde, Variation of energy linearity and w value in gaseous xenon radiation detectors for X-rays in the 0.1 to 25 keV energy range: a Monte Carlo simulation study . . . A307 (1991) 347
Santos, F.P., see Dias, T.H.V.T. . . . A310 (1991) 137
Sanzone, M., see Mazzaschi, L. . . . A305 (1991) 391
Sanzone, M., see Gervino, G. . . . A309 (1991) 497
Sapritsky, V.I., see Anevsky, S.I. . . . A308 (1991) 165
Sarakinos, M.E., see Becker, U.J. . . . A306 (1991) 194
Saran, S., see Adriani, O. . . . A302 (1991) 53
Sarma, P.R., A proposed new type of radially and azimuthally varying magnetic field in cyclotrons for enhanced focusing . . . A305 (1991) 10
Sartorelli, G., see Alvisi, C. . . . A305 (1991) 30
Sartori, G., see Bartoli, B. . . . A302 (1991) 515
Sartori, G., see Cresti, M. . . . A306 (1991) 563
Sasaki, H., see Saito, T. . . . A301 (1991) 568
Sasano, M., see Hasegawa, K. . . . A310 (1991) 366
Sasser, G.E., see Becker, U.J. . . . A306 (1991) 194
Sato, S., Y. Yasojima, S. Nakata, C. Tsukishima, T. Hifumi and S. Okuda, Design and experiment of a far-infrared FEL . . . A304 (1991) 649
Sato, Y., H. Ogawa, S. Yamada and T. Yamada, A simple structure for reducing gas-flow into a PIG discharge column (*Letter to the Editor*) . . . A309 (1991) 348
Sato, Y., H. Ogawa, S. Yamada, T. Yamada, T. Kohno and A. Kitagawa, High yield of multiply charged silicon ions by a pulsed sputter Penning source . . . A310 (1991) 693
Satta, L., see Ambrosio, M. . . . A301 (1991) 275
Satyanarayana, B., see Adarkar, H. . . . A308 (1991) 574
Sauli, F., see Fonte, P. . . . A305 (1991) 91
Sauli, F., see Charpak, G. . . . A307 (1991) 63
Sauli, F., see Bouclier, R. . . . A310 (1991) 74
Sauli, F., see Fonte, P. . . . A310 (1991) 140
Savić, Z., Some software algorithms for microprocessor ratemeters . . . A301 (1991) 517
Savin, A., see Adriani, O. . . . A302 (1991) 53
Savinov, G.A., see Babichev, E.A. . . . A310 (1991) 449
Saxon, G., see Bakker, R.J. . . . A304 (1991) 173
Saxon, G., see Bakker, R.J. . . . A307 (1991) 543
Saxon, G., see Van der Geer, C.A.J. . . . A307 (1991) 553
Scalia, R., see Bartalucci, S. . . . A309 (1991) 355
Scarlassara, F., B.G. Glagola, W. Kutschera, K.E. Rehm and A.H. Wuosmaa, Nuclear charge separation of low-energy medium-mass ions with a gas-filled magnetic spectrometer . . . A309 (1991) 485
Schäcke, D., see ZEUS Calorimeter Group . . . A309 (1991) 101
Schaeffer, M., see Hietanen, I. . . . A305 (1991) 173

Schaeffer, M., see Hubbeling, L. A310 (1991) 197
Schaeffer, M., see Hietanen, I. A310 (1991) 677
Schaerf, C., see Babusci, D. A305 (1991) 19
Schaerf, C., see Mazzaschi, L. A305 (1991) 391
Schäfer, W., see Kockelmann, W. A305 (1991) 435
Schäfer-Jotter, M., see Dobberstein, M.P. A306 (1991) 474
Schaffer, A.C., see Cizeron, R. A307 (1991) 286
Schalk, T., see Sonnenblick, R. A310 (1991) 189
Schalt, W., see Badurek, G. A309 (1991) 275
Schamberger, R.D., U. Heintz, J. Lee-Franzini, D.M.J. Lovelock, M. Narain, J. Willins, C. Yanagisawa, P.M. Tuts, P. Franzini, S. Kanekal and Q.W. Wu, CUSB-II: a high precision electromagnetic spectrometer A309 (1991) 450
Schardt, D., see Folger, H. A303 (1991) 24
Scharlemann, E.T., see Shay, H.D. A304 (1991) 262
Scharmann, A., see Habermehl, H.-E. A303 (1991) 370
Scheel, C.V., see Acosta, D. A302 (1991) 36
Scheel, C.V., see Acosta, D. A305 (1991) 55
Scheel, C.V., see Acosta, D. A308 (1991) 481
Scheel, C.V., see Acosta, D. A309 (1991) 143
Schefer, J., P. Fischer, H. Heer, A. Isacson, M. Koch and R. Thut, Successful use of a linear position-sensitive neutron detector in solid state physics and materials science A310 (1991) 416
Scheibling, F., see Rudolf, G. A307 (1991) 325
Scheibling, F., see Dassie, D. A309 (1991) 465
Schellman, H., see King, B.J. A302 (1991) 254
Schelten, J., see Heiderich, M. A305 (1991) 423
Schenk, H.W., see Besch, H.J. A310 (1991) 446
Schiavon, P.G., see Cavestro, A. A305 (1991) 488
Schiemenz, P., A. Ross and G. Graw, High field permanent sextupole magnets for Stern Gerlach separation in atomic beam sources A305 (1991) 15
Schierbeek, A.J. and D. Parlevliet, New developments of an X-ray television area detector A310 (1991) 571
Schinzel, D., see Bacci, C. A301 (1991) 445
Schinzel, D., see UA1 Collaboration A305 (1991) 331
Schioppa, M., see Alvisi, C. A305 (1991) 30
Schippers, J.M., H.H. Kiewiet and J. Zijlstra, A beam profile monitor using the ionization of residual gas in the beam pipe A310 (1991) 540
Schlatter, D., see Atwood, W.B. A306 (1991) 446
Schleper, P., see Fréjus Collaboration A302 (1991) 406
Schmelling, M., see Atwood, W.B. A306 (1991) 446
Schmelzbach, P.A., see Singy, D. A306 (1991) 36
Schmidt, B., see Fischle, H. A301 (1991) 202
Schmidt, B., see Feuerstack, M. A310 (1991) 287
Schmidt, H., see Atwood, W.B. A306 (1991) 446
Schmidt, K., see Brendle, M. A302 (1991) 339
Schmidt, K.-H., see Folger, H. A303 (1991) 24
Schmidt, W.F., see UA1 Collaboration A305 (1991) 331
Schmidt-Böcking, H., see Dangendorf, V. A308 (1991) 519
Schmitt, J.H.M.M., see Stephan, K.-H. A303 (1991) 196
Schmitt, M., see Elliott, C.J. A304 (1991) 545
Schmitt, M.J. and B.D. McVey, Three-dimensional simulations of harmonic radiation and harmonic lasing . . A304 (1991) 571
Schmitz, J., see Acosta, D. A305 (1991) 55
Schmitz, J., see Acosta, D. A308 (1991) 481
Schmitz, J., see Acosta, D. A309 (1991) 143
Schmitz, J., see Hartjes, F. A310 (1991) 88
Schmor, P.W., see Buchmann, L. A306 (1991) 413
Schneider, H.-L., see Hartmann, J. A305 (1991) 366
Schneider, H.-L., see ZEUS Calorimeter Group A309 (1991) 101
Schneider, W., see Arends, J. A306 (1991) 89
Schneidmiller, E.A., see Saldin, E.L. A307 (1991) 526
Schneidmiller, E.A., see Saldin, E.L. A307 (1991) 531
Schnopper, H.W., see Budtz-Jørgensen, C. A310 (1991) 82
Schooneveld, E.M., S.A. Audet, C.W.E. van Eijk, S.J. Gelsema, R.W. Hollander and S.E. Wouters, A silicon detection system for DNA-sequencing A305 (1991) 581

Schooneveld, E.M., C.W.E. van Eijk, S.J. Gelsema, R.W. Hollander and S.E. Wouters, A silicon detector for DNA-sequencing A310 (1991) 385
Schotanus, P., T.M.V. Bootsma, P.F. Box, P. Decowski, E. Gierlik, R. Kamermans, G.J. van Nieuwenhuizen, C.M. Spaltro and C.J.W. Twenhöfel, The detection of charged particles with a matrix of CsI(Tl) crystals coupled to photodiodes A310 (1991) 523
Schraube, G., see Mares, V. A307 (1991) 398
Schraube, H., see Mares, V. A307 (1991) 398
Schreckenbach, K., see Nastoll, H. A306 (1991) 65
Schroeder, J., see Atwood, W.B. A306 (1991) 446
Schubnell, M., see Fréjus Collaboration A302 (1991) 406
Schück, C., see Dionisio, J.S. A303 (1991) 9
Schuijlenburg, H., see Hartjes, F. A310 (1991) 88
Schüller, H., see Badura, A. A310 (1991) 441
Schultz, J., see Bartoszek, L. A301 (1991) 47
Schultz von Dratzig, A., see Adriani, O. A302 (1991) 53
Schulz, W., see ZEUS Calorimeter Group A309 (1991) 101
Schumacher, R., see Andersen, E. A301 (1991) 69
Schumacher, R.A., see Backenstoss, G. A310 (1991) 518
Schumann, F., see Dei-Cas, R. A304 (1991) 215
Schumann, F., see Balleyguier, P. A304 (1991) 308
Schumann, F., see De Brion, J.P. A304 (1991) 333
Schumm, B.A., see King, B.J. A302 (1991) 254
Schuster, K., see Klein, P. A305 (1991) 517
Schuster, M., see Storb, Ch. A306 (1991) 544
Schuster, W., see Kockelmann, W. A305 (1991) 435
Schütz, P., see Grundey, T. A306 (1991) 21
Schwarz, J., see Pinfold, J.L. A302 (1991) 434
Schweig, A., see Kreile, J. A308 (1991) 621
Schwering, G., see Adriani, O. A302 (1991) 53
Schwettman, H.A., see Swent, R.L. A304 (1991) 272
Schwettman, H.A., see Smith, T.I. A304 (1991) 812
Scigocki, D., see Charpak, G. A307 (1991) 63
Scigocki, D., see Charpak, G. A310 (1991) 128
Sciubba, A., see WA84 Collaboration A310 (1991) 485
Sciulli, F.J., see King, B.J. A302 (1991) 254
Scott, R.D., see Tagziria, H. A303 (1991) 123
Scott, R.D., see Pauwels, J. A303 (1991) 133
Scribano, A., see Bartoli, B. A302 (1991) 515
Scribano, A., see Cresti, M. A306 (1991) 563
Sebastiani, M., see Bacci, C. A306 (1991) 182
Seddon, J.M., see Harrison, A. A310 (1991) 220
Seddon, J.M., see Templer, R.H. A310 (1991) 232
Sedlyarov, I.K., see Gavrilov, N.G. A304 (1991) 228
Sedykh, Yu.V., see Alekseev, G.D. A305 (1991) 344
Seeger, A., see Badurek, G. A309 (1991) 275
Seemann, U., see Frommhold, Th. A310 (1991) 657
Seez, C., see Bacci, C. A301 (1991) 445
Seez, C., see UA1 Collaboration A305 (1991) 331
Segré, J., see Adolf, A. A304 (1991) 297
Seguin, S., see Dei-Cas, R. A304 (1991) 215
Séguinot, J., see Hempstead, M. A306 (1991) 207
Seibel, W., see Kreile, J. A308 (1991) 621
Seiden, A., see Hylen, J. A310 (1991) 497
Seiden, A., see Sadrozinski, H.F.-W. A310 (1991) 557
Seidl, W., see UA1 Collaboration A305 (1991) 331
Seidlein, R., see Bylsma, B.G. A305 (1991) 354
Seidler, U., see Dreyer, T. A309 (1991) 184
Seidman, A., see Borchi, E. A301 (1991) 215
Seixas, J.M., see Acosta, D. A302 (1991) 36
Seixas, J.M., see Acosta, D. A305 (1991) 55
Seixas, J.M., see Acosta, D. A308 (1991) 481

Seixas, J.M., see Acosta, D. . . . A309 (1991) 143
Sekatsky, S.K., see Alkhazov, G.D. . . . A306 (1991) 400
Sekimoto, H., K. Watanabe and D.-W. Lee, A design study of detectors for low-level neutrons . . . A302 (1991) 150
Sekita, H., T. Mizuno, H. Ohta, M. Kitora, Y. Naito and H. Saito, Long-pulse experiment of circular free electron laser . . . A304 (1991) 137
Sekulovich, A.M., see Berdoz, A.R. . . . A307 (1991) 26
Selen, M., see Bebek, C. . . . A302 (1991) 261
Seleznev, V.N., see Kotrbova, M. . . . A308 (1991) 456
Seligman, W.G., see King, B.J. . . . A302 (1991) 254
Selivanov, V.I., see Abramov, A.A. . . . A302 (1991) 529
Seller, P., see Allport, P.P. . . . A310 (1991) 155
Selonke, F., see ZEUS Calorimeter Group . . . A309 (1991) 101
Semiletov, A.S., see Nikolaenko, A.M. . . . A308 (1991) 278
Semyonov, V.K., see Kapitza, S.P. . . . A308 (1991) 97
Sennhauser, U., see Backenstoss, G. . . . A310 (1991) 518
Seo, E.S., see Golden, R.L. . . . A306 (1991) 366
Septier, A., F. Sabary, J.C. Dudek, H. Bergeret and B. Leblond, A binary Al/Li alloy as a new material for the realization of high-intensity pulsed photocathodes . . . A304 (1991) 392
Serafini, L., see Pagani, C. . . . A304 (1991) 251
Serafini, L., M. Ferrario and C. Pagani, Subharmonic optical klystron: SHOK . . . A304 (1991) 654
Serci, S., see Bonazzola, G.C. . . . A306 (1991) 305
Serdiuk, V.Z., see Kalmar, H. . . . A307 (1991) 279
Serdyuk, V.Z., see Volkov, A.D. . . . A306 (1991) 278
Seres, Z., see Keszthelyi-Lándori, S. . . . A303 (1991) 374
Serezhnikov, S.V., see Kazarnovsky, M.V. . . . A301 (1991) 246
Serezhnikov, S.V., see Nikolaev, Yu.M. . . . A306 (1991) 343
Serio, M., see Castellano, M. . . . A304 (1991) 204
Serio, M., see Bartalucci, S. . . . A309 (1991) 355
Serov, A.V., Experimental investigation of the operation of a parametric free-electron laser employing a bending magnet instead of an undulator . . . A308 (1991) 144
Serov, A.V., Numerical calculation of the gain of a free-electron laser, taking into account the modulation of parameters of an electron beam in its injection into the laser . . . A308 (1991) 146
Sessa, M., see Lund–Milano–Torino–Trieste Collaboration . . . A305 (1991) 320
Sessler, A.M., see Sharp, W.M. . . . A304 (1991) 487
Sessler, A.M., D.H. Whittum, J.S. Wurtele, W.M. Sharp and M.A. Makowski, Standing-wave free-electron laser two-beam accelerator . . . A306 (1991) 592
Settles, R., see Atwood, W.B. . . . A306 (1991) 446
Severgin, Y.P., see Artukh, A.G. . . . A306 (1991) 123
Shabelnikov, L.G. and A.P. Zuev, X-ray diffractometry of thin films using synchrotron radiation beams . . . A308 (1991) 305
Shaevitz, M.H., see King, B.J. . . . A302 (1991) 254
Shah, J.S., A. La Monaca, A. Bigi and N. Roveri, X-ray diffraction and continuous small-angle scattering of turkey tendons with the improved area detector at Frascati . . . A308 (1991) 285
Shah, J.S., see La Monaca, A. . . . A310 (1991) 403
Shank, J.T., J.S. Whitaker, V.A. Polychronakos, V. Radeka, D. Stephani, H. Beker, R.K. Bock, M. Botlo, C.W. Fabjan, J. Pfennig, M.J. Price, W.J. Willis, T. Akesson, V. Chernyatin, B. Dolgoshein, P. Nevski, A. Konstantinov, M. Potekhin, A. Romanjuk, V. Sosnovtsev, I. Gavrilenko, S. Muraviev and A. Shmeleva, Test-beam performance of a tracking TRD prototype . . . A309 (1991) 377
Shapira, D., K. Teh, J. Blankenship, B. Burks, L. Foutch, H.J. Kim, M. Korolija, J.W. McConnell, M. Messick, R. Novotny, D. Rentsch, J. Shea and J.P. Wieleczko, The HILI – a multidetector system for light ions and heavy ions . . . A301 (1991) 76
Sharov, V.I., see Ableev, V.G. . . . A306 (1991) 73
Sharp, P.H., see Raymond, D.M. . . . A310 (1991) 552
Sharp, W.M., A.M. Sessler, D.H. Whittum and J.S. Wurtele, Simulation of a standing-wave free electron laser A304 (1991) 487
Sharp, W.M., see Pierini, P. . . . A304 (1991) 644
Sharp, W.M., see Sessler, A.M. . . . A306 (1991) 592
Shatilov, D.N., see Gerasimov, A.L. . . . A305 (1991) 25
Shatkus, A.D., see Karbushev, N.I. . . . A304 (1991) 559
Shatkus, A.D., Linear theory of optical guiding in a free electron laser with an annular electron beam . . . A304 (1991) 583
Shay, H.D., R.A. Jong, R.D. Ryne, S.S. Yu and E.T. Scharlemann, Use of a FEL as a buncher for a TBA scheme . . . A304 (1991) 262
Shchipkov, N.N., see Antonov, A.A. . . . A308 (1991) 442

Shea, J., see Shapira, D. . . . A301 (1991) 76
Shea, T., see Wang, J.G. . . . A301 (1991) 19
Sheaff, M., see Errede, D. . . . A309 (1991) 386
Sheffield, R.L., see Feldman, D.W. . . . A304 (1991) 224
Sheffield, R.L., see Lumpkin, A.H. . . . A304 (1991) 379
Shehmametiev, R.A., see Alexandrov, A.A. . . . A302 (1991) 478
Shehmametiev, R.A., see Alexandrov, A.A. . . . A303 (1991) 323
Shekhtman, L.I., see Babichev, E.A. . . . A310 (1991) 449
Shemetov, A.N., see Alexandrov, A.A. . . . A302 (1991) 478
Shemetov, A.N., see Alexandrov, A.A. . . . A303 (1991) 323
Shemwell, D., see Dowell, D.H. . . . A304 (1991) 1
Shemwell, D., see Laucks, M.L. . . . A304 (1991) 25
Shen, H.S., see He, X.C. . . . A308 (1991) 375
Shenoy, G.K., Status of the Advanced Photon Source project . . . A303 (1991) 413
Shepard, P.F., see Bromberg, C. . . . A307 (1991) 292
Shepherd, J.A., see Williams, M.B. . . . A302 (1991) 105
Sheremetyev, I.A., A.V. Turbal, Yu.M. Litvinov and M.A. Mikhailov, Computer-planned synchrotron white X-ray topography . . . A308 (1991) 447
Sheremetyev, I.A., A.V. Turbal, Yu.M. Litvinov and M.A. Mikhailov, Computer deciphering of Laue patterns: application to white synchrotron X-ray topography . . . A308 (1991) 451
Sheromov, M.A., see Neissendorfer, F. . . . A308 (1991) 276
Sheromov, M.A., see Dementyev, E.N. . . . A308 (1991) 352
Sheromov, M.A., see Dolbnya, I.P. . . . A308 (1991) 416
Sheromov, M.A., see Barsukov, V.P. . . . A308 (1991) 419
Sheshunov, V.M., see Zrelov, V.P. . . . A302 (1991) 301
Shevchenko, S., see Adriani, O. . . . A302 (1991) 53
Shevchenko, S., see Adeva, B. . . . A309 (1991) 318
Shevchenko, V., see Adriani, O. . . . A302 (1991) 53
Shi, X., see Weng, H. . . . A307 (1991) 577
Shi, X.Z., see Yang, T.L. . . . A304 (1991) 280
Shi Caitu, see Zeng Jiyang . . . A308 (1991) 616
Shibamura, E., see Doke, T. . . . A302 (1991) 290
Shibamura, E., see Ichinose, H. . . . A305 (1991) 111
Shibamura, E., see Masuda, K. . . . A309 (1991) 489
Shibata, E.I., see Bebek, C. . . . A302 (1991) 261
Shibata, K., see Inoue, K. . . . A309 (1991) 294
Shibata, M., see Kawade, K. . . . A301 (1991) 594
Shibata, T., see Ejiri, H. . . . A302 (1991) 304
Shibata, Y., K. Ishi, T. Ohsaka, H. Mishiro, T. Takahashi, M. Ikezawa, Y. Kondo, T. Nakazato, M. Oyamada, N. Niimura, S. Urasawa, R. Kato and Y. Torizuka, Coherent synchrotron radiation at submillimeter and millimeter wavelengths . . . A301 (1991) 161
Shidara, T., see Koide, T. . . . A308 (1991) 635
Shigemasa, E., see Yagishita, A. . . . A306 (1991) 578
Shih, C.-C. and S.-M. Shih, Advanced free electron laser resonator . . . A304 (1991) 788
Shih, S.-M., see Shih, C.-C. . . . A304 (1991) 788
Shiho, M., K. Sakamoto, S. Maebara, A. Watanabe, Y. Kishimoto, H. Oda, S. Kawasaki, T. Nagashima and H. Maeda, JAERI millimeter wave FEL experiments with a focusing wiggler . . . A304 (1991) 141
Shiho, M., see Kishimoto, Y. . . . A304 (1991) 632
Shikanov, A.S., see Alexandrov, Yu.M. . . . A308 (1991) 340
Shikanov, A.S., see Alexandrov, Yu.M. . . . A308 (1991) 343
Shilin, Yu.N., see Nikolaenko, A.M. . . . A308 (1991) 278
Shima, K., see Nakayama, S. . . . A302 (1991) 472
Shima, T., see Ejiri, H. . . . A302 (1991) 304
Shima, T., see Garnett, R. . . . A309 (1991) 508
Shimizu, T., see D'Ambrosio, C. . . . A306 (1991) 549
Shimonaka, A., see Fujita, K. . . . A308 (1991) 514
Shin, K., Y. Ishii, Y. Uwamino, H. Sakai and S. Numata, Measurements of NE-213 response functions to neutrons of energies up to several tens of MeV . . . A308 (1991) 609
Shinji, O., see D'Ambrosio, C. . . . A306 (1991) 549
Shinkeev, M.L., see Medvedev, A.F. . . . A308 (1991) 124
Shiotani, N., see Sakai, N. . . . A303 (1991) 488

Shirkov, G.D., C. Mühle, G. Musiol and G. Zschornack, Ionization and charge dispersion in electron cyclotron resonance ion sources . . . A302 (1991) 1
Shishanin, O.E., Dependence of synchrotron light characteristics on the inhomogeneity of magnetic fields . . . A308 (1991) 111
Shivpuri, R., see Bromberg, C. . . . A307 (1991) 292
Shlapakovskii, A.S., see Fomenko, G.P. . . . A304 (1991) 447
Shmakov, K., see Adriani, O. . . . A302 (1991) 53
Shmeleva, A., see Shank, J.T. . . . A309 (1991) 377
Shoemaker, J., see Simon-Gillo, J. . . . A309 (1991) 427
Shoffstall, D.R., see Dowell, D.H. . . . A304 (1991) 1
Shoffstall, D.R., see Laucks, M.L. . . . A304 (1991) 25
Shoffstall, D.R., see Dowell, D.H. . . . A304 (1991) 336
Shorin, K.N., see Demyanov, G.V. . . . A308 (1991) 149
Shoumilov, E., see Adriani, O. . . . A302 (1991) 53
Shoutko, V., see Adriani, O. . . . A302 (1991) 53
Shpol'sky, M.R., see Alexandrov, Yu.M. . . . A308 (1991) 343
Shuhong, W., see Huashun, Z. . . . A307 (1991) 167
Shutov, V.B., see Ableev, V.G. . . . A306 (1991) 73
Shuvalov, R.S., see Fedyakin, N.N. . . . A301 (1991) 121
Shuvalov, R.S., see Krasnokutsky, R.N. . . . A309 (1991) 339
Sidorkin, S.F., V.I. Derzhiev and S.I. Yakovlenko, On the possibility of using middle and high energy proton beams to study nuclear pumped lasers . . . A306 (1991) 240
Sidorkin, V.V., see Volkov, A.D. . . . A306 (1991) 278
Sidorkin, V.V., see Kalmar, H. . . . A307 (1991) 279
Sidorov, V.A., see Babichev, E.A. . . . A310 (1991) 449
Siedling, R., see Adriani, O. . . . A302 (1991) 53
Siegert, G., see Dreyer, T. . . . A309 (1991) 184
Siegmund, O.H.W., M. Lampton, R. Raffanti and W. Herrick, High resolution delay line readouts for microchannel plates . . . A310 (1991) 311
Siegmund, O.H.W., see Vallerga, J.V. . . . A310 (1991) 317
Siegmund, T., see Cindro, V. . . . A309 (1991) 411
Sievers, A.J., see Blum, E.B. . . . A307 (1991) 568
Sigrist, A., see RD3 Collaboration . . . A309 (1991) 438
Silvestrov, I.G., see Gavrilov, N.G. . . . A304 (1991) 63
Silvestrov, I.G., see Gavrilov, N.G. . . . A308 (1991) 109
Šimák, V., see Antoš, J. . . . A302 (1991) 277
Šimičević, N., see Backenstoss, G. . . . A310 (1991) 518
Simmons, R.M., see Faruqi, A.R. . . . A310 (1991) 359
Simon, A., see Acosta, D. . . . A302 (1991) 36
Simon, A., see Acosta, D. . . . A305 (1991) 55
Simon, A., see Acosta, D. . . . A308 (1991) 481
Simon, A., see Acosta, D. . . . A309 (1991) 143
Simon, M., see Dei-Cas, R. . . . A304 (1991) 212
Simon-Gillo, J., A. Farooq, M.W. Rawool-Sullivan, A. Ray, J. Shoemaker, J.P. Sullivan, K.L. Wolf, E.F. Barasch, J.G. Boissevain, D. Fox, A. Gavron, K. Holzscheiter, B.V. Jacak, T. Lopez, J. Kapustinsky, W. Sondheim, J.W. Sunier, H. Van Hecke and B. Wolf, The design and construction of a Pb/scintillator sampling calorimeter with wavelength shifter fiber optic readout . . . A309 (1991) 427
Simonov, V.P., see Dolbnya, I.P. . . . A308 (1991) 435
Singy, D., W. Grüebler, P.A. Schmelzbach, O. Huwyler and W.Z. Zhang, A sextupole magnet system for the production of intense polarized hydrogen atomic beams at low temperature . . . A306 (1991) 36
Sinilshikova, I.V., see Bogachenkov, V.A. . . . A304 (1991) 104
Sinitsyn, I.V., see Abramov, A.A. . . . A302 (1991) 529
Sinnott, J., see Ross, W. . . . A310 (1991) 493
Sinyansky, O.V., see Artemiev, A.N. . . . A308 (1991) 405
Sippach, W., see ZEUS Calorimeter Group . . . A309 (1991) 101
Sitnik, I.M., see Ableev, V.G. . . . A306 (1991) 73
Sitnikov, S.I., see Alexandrov, A.A. . . . A303 (1991) 323
Sivertz, M., see Acosta, D. . . . A302 (1991) 36
Sivertz, M., see Acosta, D. . . . A305 (1991) 55
Sivertz, M., see Acosta, D. . . . A308 (1991) 481
Sivertz, M., see Acosta, D. . . . A309 (1991) 143
Skakov, Yu.A., see Tagabilev, G.Kh. . . . A308 (1991) 251

Skeppstedt, Ö., see Lindroos, M. A306 (1991) 225
Skinner, G.K., see Herring, J.R.H. A310 (1991) 341
Skoczeń, A., see Dąbrowski, W. A301 (1991) 288
Skopik, D.M., see Clayton, J. A305 (1991) 116
Skorikov, V.M., see Yanovski, V.V. A309 (1991) 596
Skow, D., see Bromberg, C. A307 (1991) 292
Skrinsky, A.N., see Couprie, M.E. A304 (1991) 47
Skrinsky, A.N., see Gavrilov, N.G. A304 (1991) 63
Skrinsky, A.N., see Gavrilov, N.G. A304 (1991) 228
Skrinsky, A.N., see Kezerashvili, G.Ya. A307 (1991) 179
Skrinsky, A.N., see Couprie, M.-E. A308 (1991) 39
Skrinsky, A.N., see Anashin, V.V. A308 (1991) 45
Skubic, P., see Ross, W. A310 (1991) 493
Skubic, P.L., see Kennedy, E.J. A307 (1991) 452
Slassi-Sennou, A.S., F. Albernhe and G. Vedrenne, Computer design of a low background germanium detector for astrophysical gamma-ray spectroscopy A305 (1991) 200
Slater, J.M., see Gottschalk, S.C. A304 (1991) 732
Slattery, P., see Bromberg, C. A307 (1991) 292
Slyusarenko, A.I., see Alexandrov, A.A. A302 (1991) 478
Slyusarenko, A.I., see Alexandrov, A.A. A303 (1991) 323
Smit, F.D., see Backenstoss, G. A310 (1991) 518
Smith, B.R., see Becker, U.J. A306 (1991) 194
Smith, D., see Ellison, J. A302 (1991) 227
Smith, D.A., see Cresti, M. A306 (1991) 563
Smith, G., see Owens, A. A307 (1991) 420
Smith, G., see ZEUS Calorimeter Group A309 (1991) 101
Smith, G.A., see Bartoszek, L. A301 (1991) 47
Smith, M.S., C. Rolfs and C.A. Barnes, A recoil separator for use in radioactive ion beam experiments A306 (1991) 233
Smith, O.A., see Bogachenkov, V.A. A304 (1991) 104
Smith, T.I., see Frisch, J.C. A304 (1991) 21
Smith, T.I., see Swent, R.L. A304 (1991) 272
Smith, T.I. and H.A. Schwettman, Facilities for using the FEL as a research tool A304 (1991) 812
Smith, W.H., see King, B.J. A302 (1991) 254
Smolyakov, N.V., see Artemiev, A.N. A308 (1991) 77
Smolyakov, N.V., Planar microundulator with rectangular grooved poles A308 (1991) 80
Smolyakov, N.V., Focusing properties of a plane wiggler magnetic field A308 (1991) 83
Smolyakov, N.V., see Chechin, A.I. A308 (1991) 86
Smykov, L.P., see Zanevsky, Yu.V. A310 (1991) 362
Snigirev, A.A., see Basov, Yu.A. A308 (1991) 363
Snigirev, A.A., see Aristov, V.V. A308 (1991) 413
Snowden, S.L., see Stephan, K.-H. A303 (1991) 196
Soares, C.G., see McLaughlin, W.L. A302 (1991) 165
Sobolev, B.P., see Kobayashi, M. A302 (1991) 443
Sobolev, B.P., see Britvich, G.I. A308 (1991) 509
Sobolewski, J., see Krause, K.-H. A310 (1991) 577
Sobottka, S.E., see Williams, M.B. A302 (1991) 105
Söder, W., see Cindro, V. A309 (1991) 411
Sokolov, A.S., see Gavrilov, N.G. A304 (1991) 63
Sokolov, A.S., see Gavrilov, N.G. A304 (1991) 228
Sokolov, A.S., see Pinayev, I.V. A304 (1991) 786
Sokolov, A.S., see Kulipanov, G.N. A308 (1991) 106
Sokolov, A.S., see Gavrilov, N.G. A308 (1991) 109
Sola, G., see Bianco, S. A305 (1991) 48
Soldatov, A.V., Yu.V. Sukhetsky and A. Bianconi, Phase transition in the $Sm_xGd_{1-x}S$ system: sulphur XANES and X-ray emission analysis A308 (1991) 246
Soldatov, A.V., see Bianconi, A. A308 (1991) 248
Soler, P., see Peak, L.S. A301 (1991) 341
Solin, O., see Lindblom, P. A302 (1991) 113
Solntzev, V.A., see Wainstein, L.A. A308 (1991) 94
Solomey, N., see Iżycki, M. A310 (1991) 98
Soloviev, S.M., see Drapchinsky, L.V. A303 (1991) 19

Someya, H., see Kawakubo, T. A306 (1991) 426
Sonderegger, P., see Acosta, D. A302 (1991) 36
Sonderegger, P., see Acosta, D. A305 (1991) 55
Sonderegger, P., see Acosta, D. A308 (1991) 481
Sonderegger, P., see Acosta, D. A309 (1991) 143
Sondheim, W., see Simon-Gillo, J. A309 (1991) 427
Song, Z.H., see Yang, T.L. A304 (1991) 280
Sonnenblick, R., N. Cartiglia, B. Hubbard, J. Leslie, H.F.-W. Sadrozinski and T. Schalk, Electrostatic simulations for the design of silicon strip detectors and front-end electronics A310 (1991) 189
Soramoto, S., K. Mochiki, M. Nakazawa, A. Okumura, H. Hayashida and H. Nakamura, New neutron detection methods using laser technique A306 (1991) 524
Soramoto, S., see Okumura, A. A306 (1991) 530
Sorrel, L., see Bromberg, C. A307 (1991) 292
Sosnovtsev, V., see Shank, J.T. A309 (1991) 377
Sotthibandhu, S., see Edwards, M. A310 (1991) 283
Souder, P.A., see Holmes, R. A303 (1991) 226
Soukup, J., see Cameron, J.M. A305 (1991) 257
Soukup, J., see Berdoz, A.R. A307 (1991) 26
Souza, M.N., see Acosta, D. A302 (1991) 36
Souza, M.N., see Acosta, D. A305 (1991) 55
Souza, M.N., see Acosta, D. A308 (1991) 481
Souza, M.N., see Acosta, D. A309 (1991) 143
Souza, R., W.B. Colson, R.W. Warren and J.C. Goldstein, Evaluation of compact FELs operating at 0.4 micron wavelength A304 (1991) 687
Spalek, G., see Chan, K.C.D. A304 (1991) 329
Špalek, J., see Antoš, J. A302 (1991) 277
Spallone, A., see Bianco, S. A301 (1991) 279
Spallone, A., see Bianco, S. A305 (1991) 48
Spaltro, C.M., see Schotanus, P. A310 (1991) 523
Spangler, J., see Akbari, H. A302 (1991) 415
Sparks, K., see Frautschi, M. A307 (1991) 52
Spartiotis, C., see Akbari, H. A302 (1991) 415
Spataro, B., see Bartalucci, S. A309 (1991) 355
Spector, G.B., T. McCollum and A.R. Spowart, Scintillator fiber optic long counter for neutron detection . . . A309 (1991) 303
Spencer, E., see Sadrozinski, H.F.-W. A310 (1991) 557
Sperisen, F., see Pitts, W.K. A302 (1991) 382
Spiczak, G., see Nutter, S. A310 (1991) 665
Spiess, B., see Adriani, O. A302 (1991) 53
Spillantini, P., see Brunetti, M.T. A302 (1991) 362
Spillantini, P., see Golden, R.L. A306 (1991) 366
Spillantini, P. and Y.F. Wang, Guidelines for a supercollider experiment: the magnetic system A307 (1991) 247
Spindler, G. and G. Renz, Chaotic behavior of electron orbits in a free electron laser near magnetoresonance A304 (1991) 492
Spinelli, P., see Bellotti, R. A305 (1991) 192
Spinka, H., see Garnett, R. A309 (1991) 508
Spiridonov, A.A., see Anykeyev, V.B. A303 (1991) 350
Spitzer, J., see Feuerstack, M. A310 (1991) 287
Spizzichino, A., see Labanti, C. A310 (1991) 327
Spooner, N.J.C., A. Bewick, S.N. Holmes, C.C. Phillips, J.J. Quenby, R.A. Stradling, T.J. Sumner, R.H. Thomas and P.D. Wang, Bulk GaAs ionization detectors for WIMP searches A310 (1991) 227
Spowart, A.R., see Spector, G.B. A309 (1991) 303
Sprangle, P., see Debenham, P.H. A304 (1991) 208
Squire, J.M., J.J. Harford, M.W.K. Chew and J. Barry, Millisecond molecular events in dynamic biological systems recorded using fast area detectors: current achievements and future needs A310 (1991) 349
Stadler, B., see Feuerstack, M. A310 (1991) 287
Stadnikoff, W., see Launspach, J. A304 (1991) 368
Stairs, G., see ZEUS Calorimeter Group A309 (1991) 101
Stampfer, D., see Andersen, E. A301 (1991) 69
Stanek, R., see Derrick, M. A309 (1991) 77
Stanek, R., see Garnett, R. A309 (1991) 508
Stanford, E.R. and T.M. Antonsen Jr., The effect of dispersion on mode competition in FEL oscillators A304 (1991) 659
Stanislaus, S., see Armijo, V. A303 (1991) 298

Stankevich, V.G., N.Yu. Svechnikov, K.V. Kaznacheev, R.A. Kink, I.L. Kuusmann, E.Kh. Feldbach, G. Zimmerer, T. Kloiber, A.A. Zhokhov, G.A. Emel'chenko, M.A. Kalyagin and V.Ya. Kosyev, Luminescence of high-temperature yttrium-based superconductors A308 (1991) 193
Stanovnik, A., see Starič, M. A307 (1991) 145
Stapor, W.J., see Harihar, P. A302 (1991) 469
Starič, M., A. Stanovnik and P. Križan, Tests of a solid CsI photocathode in a thin multiwire proportional chamber (*Letter to the Editor*) A307 (1991) 145
Staroba, P., see Antoš, J. A302 (1991) 277
Stassi, P., see Désesquelles, P. A307 (1991) 366
Stauffer, A.D., see Dias, T.H.V.T. A307 (1991) 341
Stauffer, A.D., see Santos, F.P. A307 (1991) 347
Stauffer, A.D., see Geesmann, H. A307 (1991) 413
Stauffer, J.A., see Geesmann, H. A307 (1991) 413
Stchepunov, V.A., see Artukh, A.G. A306 (1991) 123
Steeg, F., see Atwood, W.B. A306 (1991) 446
Steele, W.F., see Chan, C.F. A306 (1991) 112
Štefan, P., see Antoš, J. A302 (1991) 277
Stefanini, A., see Bartoli, B. A302 (1991) 515
Stefanini, A., see Bencivelli, W. A305 (1991) 574
Stefanini, A., see Cresti, M. A306 (1991) 563
Stefanini, A., see Bencivelli, W. A310 (1991) 210
Stefanini, G., see Coc, A. A305 (1991) 143
Stefanini, G., see Bähr, J. A306 (1991) 169
Stefanini, G., see Atwood, W.B. A306 (1991) 446
Steijger, J., E. Kok, E. Kwakkel, J.L. Visschers and A.N.M. Zwart, A fast readout system for scintillation detectors A310 (1991) 509
Steijger, J., Th.S. Bauer, W.H.A. Hesselink, E. Jans, G.J.L. Nooren, A. Pellegrino and A. Zondervan, A scintillator detector system for electron scattering experiments A310 (1991) 513
Stein, W., see Kim, K.-J. A304 (1991) 233
Stein, W.E., see Feldman, D.W. A304 (1991) 224
Stein, W.E., see Lumpkin, A.H. A304 (1991) 379
Steiper, F., see Frommhold, Th. A310 (1991) 657
Stelzer, H., Multiwire chambers with a two-stage gas amplification A310 (1991) 103
Stelzer, H., CAMDA – a PC-based data acquisition system A310 (1991) 562
Stepanenko, A.V., see Barkov, A.V. A308 (1991) 70
Stepanov, S.A., E.A. Kondrashkina and D.V. Novikov, X-ray surface back diffraction A301 (1991) 350
Stephan, K.-H., J.H.M.M. Schmitt, S.L. Snowden, H.J. Maier and D. Frischke, The boron filter for the ROSAT X-ray telescope A303 (1991) 196
Stephani, D., see Shank, J.T. A309 (1991) 377
Stephens, K., see Allison, J. A310 (1991) 527
Stephens, S.A., see Golden, R.L. A306 (1991) 366
Stephenson, R., see Suckling, J. A310 (1991) 465
Sterk, A.B., see van Amersfoort, P.W. A304 (1991) 168
Sternbach, E.J., Computer simulation of superradiant free electron lasers in highly dispersive waveguides A304 (1991) 663
Sternbach, E.J. and H. Ghalila, Enhanced emission of high frequency radiation from an electron beam in an undulator by backward wave resonance A304 (1991) 691
Stevenson, J.D., see Clayton, J. A305 (1991) 116
Stewart, A.T., see McKee, B.T.A. A310 (1991) 255
Stewart, J., see Berdoz, A.R. A307 (1991) 26
Stewart, J.A., see Roser, T. A301 (1991) 42
Stichelbaut, F., see Buytaert, J. A310 (1991) 596
Stier, H.E., see Dreyer, T. A309 (1991) 184
Stierlin, U., see Atwood, W.B. A306 (1991) 446
Stinson, G.M., see Berdoz, A.R. A307 (1991) 26
Stochaj, S., see Golden, R.L. A306 (1991) 366
Stone, H., see Zhu, R.Y. A302 (1991) 69
Stoner Jr, J.O., Densities of carbon foils A303 (1991) 94
Stoop, K.W.J., see Van Geest, L.K. A310 (1991) 261
Storb, Ch., U. Dedek, W. Weber, B. Lengeler and M. Schuster, Photodiodes as detectors with high dynamical range for X-ray reflectivity measurements A306 (1991) 544
Stork, D., see UA1 Collaboration A305 (1991) 331

Strachota, J., see Antoš, J. A302 (1991) 277
Stradling, R.A., see Spooner, N.J.C. A310 (1991) 227
Strand, S.-E., see Ljunggren, K. A310 (1991) 475
Stratonov, V.M., see Mikhailov, M.A. A308 (1991) 301
Straver, J., see ZEUS Calorimeter Group A309 (1991) 101
Street, R.A., see Drewery, J.S. A310 (1991) 165
Street, R.A., see Antonuk, L.E. A310 (1991) 460
Streitmatter, R.E., see Golden, R.L. A306 (1991) 366
Striby, S., see Dei-Cas, R. A304 (1991) 215
Striby, S., see Balleyguier, P. A304 (1991) 308
Strobelt, T., see Finkbeiner, F. A306 (1991) 215
Strokov, P.V., see Bagrov, V.G. A308 (1991) 89
Strokovsky, E.A., see Ableev, V.G. A306 (1991) 73
Stroynowski, R., see Kuhlen, M. A301 (1991) 223
Struczinski, W., see Grässler, H. A310 (1991) 535
Strüder, L., see Klein, P. A305 (1991) 517
Strunov, L.N., see Ableev, V.G. A306 (1991) 73
Stuart, D., see Charpak, G. A307 (1991) 63
Stuart, R.A., see Kong, G. A304 (1991) 238
Stubenrauch, C., see Bacci, C. A301 (1991) 445
Stubenrauch, C., see UA1 Collaboration A305 (1991) 331
Sturhahn, W., see Rüffer, R. A303 (1991) 495
Stuttgé, L., see Rudolf, G. A307 (1991) 325
Su, D., see Acton, P. A305 (1991) 504
Suckling, J., R.J. Ott, P.K. Marsden, J.E. Bateman, J.F. Connolly and R. Stephenson, Optimising the design of a large-area positron camera based on BaF_2 TMAE/MWPC technology A310 (1991) 465
Suda, T., see Kato, S. A307 (1991) 213
Sudhakar, K., see Adriani, O. A302 (1991) 53
Sueoka, O., see Ito, Y. A305 (1991) 269
Suffert, M., see Francke, T. A307 (1991) 47
Suffert, M., see Francke, T. A310 (1991) 146
Sugai, I., M. Oyaizu, T. Hattori, K. Kawasaki, T. Yano, H. Muto, Y. Takahashi and K. Yamazaki, Nitrided carbon foils as long-lived charge strippers A303 (1991) 59
Sugano, K., Flow-rate independent gas-mixing system for drift chambers, using solenoid valves A301 (1991) 454
Sugano, K., see Derrick, M. A309 (1991) 77
Sugimitsu, T. and N. Hori, A ^{8}Be detection system for angular distribution measurements A309 (1991) 218
Sugimoto, S., see Kobayashi, M. A305 (1991) 401
Sugimoto, S., see Kobayashi, M. A306 (1991) 139
Sugitate, T., A. Sakaguchi, S. Endo, H. Ifuku, S. Esumi, F. Nishiyama, H. Hamagaki, M. Suzuki, S. Suzuki and K. Itoh, Observation of ring-imaging Cherenkov photons with an image intensifier A307 (1991) 265
Sugiyama, S., see Yamada, K. A304 (1991) 86
Sugiyama, S., see Yamazaki, T. A309 (1991) 343
Sugiyama, Y., see Ideno, K. A302 (1991) 385
Sukhanov, S.V., see Korchuganov, V.N. A308 (1991) 54
Sukhetsky, Yu.V., see Soldatov, A.V. A308 (1991) 246
Sullivan, J.P., see Simon-Gillo, J. A309 (1991) 427
Sumner, T.J., see Roe, S. A310 (1991) 192
Sumner, T.J., see Spooner, N.J.C. A310 (1991) 227
Sumner, T.J., see Zammit, C.C. A310 (1991) 244
Sumorok, K., see UA1 Collaboration A305 (1991) 331
Sumorok, K., see Masuda, K. A309 (1991) 489
Sun, J., see D'Ambrosio, C. A306 (1991) 549
Sun, K., see Dowell, D.H. A304 (1991) 1
Sun, K., see Laucks, M.L. A304 (1991) 25
Sun Jian, see Zeng Jiyang A308 (1991) 616
Sunaoshi, H., see Fujioka, M. A309 (1991) 600
Sundermann, D., see Audit, G. A301 (1991) 473
Sunier, J.W., see Simon-Gillo, J. A309 (1991) 427
Susini, J., see Elleaume, P. A308 (1991) 382
Susinno, G., see Alvisi, C. A305 (1991) 30
Suzuki, A., see Haba, J. A303 (1991) 346

Suzuki, M., see Aprile, E. . . . A302 (1991) 177
Suzuki, M., see Aprile, E. . . . A307 (1991) 119
Suzuki, M., see Sugitate, T. . . . A307 (1991) 265
Suzuki, R., see Yamada, K. . . . A304 (1991) 86
Suzuki, R., see Yamazaki, T. . . . A309 (1991) 343
Suzuki, S., see Bettini, A. . . . A305 (1991) 177
Suzuki, S., see Sugitate, T. . . . A307 (1991) 265
Svanberg, S., see Werin, S. . . . A304 (1991) 81
Svechnikov, N.Yu., see Stankevich, V.G. . . . A308 (1991) 193
Svishchev, A.V., see Mikheeva, M.N. . . . A308 (1991) 223
Swent, R.L., see Frisch, J.C. . . . A304 (1991) 21
Swent, R.L., K.W. Berryman, H.A. Schwettman and T.I. Smith, Applications of wavelength agility in an FEL facility . . . A304 (1991) 272
Swinyard, B.M., see Bird, A.J. . . . A310 (1991) 323
Swinyard, B.M., see Malaguti, G. . . . A310 (1991) 337
Syed, A.A., see Adeva, B. . . . A309 (1991) 318
Symons, T.J.M., see Doke, T. . . . A302 (1991) 290
Syrejshchikova, T.I., see Demyanov, G.V. . . . A308 (1991) 215
Szekely, G., W. Klamra, Th. Lindblad and B. Lund-Jensen, A small multiparameter data acquisition system based on a VME-PC/AT . . . A306 (1991) 540
Szklarz, G., see Fréjus Collaboration . . . A302 (1991) 406
Szklarz, G., see Dassie, D. . . . A309 (1991) 465
Szlachciak, J., see Kręciejewski, M. . . . A301 (1991) 424
Szoncsó, F., see Botlo, M. . . . A302 (1991) 331

Taccetti, N., see Pasquali, G. . . . A301 (1991) 101
Tafelmeier, U., see Besch, H.J. . . . A310 (1991) 446
Tagabilev, G.Kh., V.K. Fyodorov, D.I. Kochubey, S.N. Gusenko, I.B. Kekalo and Yu.A. Skakov, The investigation of structural features and crystallization of amorphous alloys $Co_{80}(Cr, Mo)_{10}Zr_{10}$ with the use of synchrotron radiation . . . A308 (1991) 251
Taguchi, T., see Mima, K. . . . A304 (1991) 93
Taguchi, T., see Ohigashi, N. . . . A304 (1991) 476
Tagziria, H., J. Pauwels, J. Verdonk, J. Van Gestel, R. Eykens, D.M. Gilliam, R.D. Scott, J. Byrne and P. Dawber, Problems related to the determination of mass densities of evaporated reference deposits . . . A303 (1991) 123
Tagziria, H., see Pauwels, J. . . . A303 (1991) 133
Tailhardat, S., see D'Ambrosio, C. . . . A307 (1991) 430
Taiocchi, G., see Guazzoni, P. . . . A305 (1991) 442
Taiuti, M., see Mazzaschi, L. . . . A305 (1991) 391
Taiuti, M., see Ricco, G. . . . A307 (1991) 374
Taiuti, M., see Gervino, G. . . . A309 (1991) 497
Tajima, H., see Saito, K. . . . A310 (1991) 175
Tajima, H., K. Saito, M. Nakamura and K. Niwa, The performance of a silicon strip detector for angled tracks A310 (1991) 504
Tajima, N., see Kumagai, H. . . . A308 (1991) 649
Takagi, A., see Mori, Y. . . . A301 (1991) 1
Takahashi, A., see Kawade, K. . . . A301 (1991) 594
Takahashi, H., see Hasegawa, K. . . . A310 (1991) 471
Takahashi, T., see Shibata, Y. . . . A301 (1991) 161
Takahashi, T., High-T_c superconductor studied with synchrotron radiation . . . A303 (1991) 515
Takahashi, T., see Fujita, K. . . . A308 (1991) 514
Takahashi, T., see Kumagai, H. . . . A308 (1991) 649
Takahashi, T., see Matsumura, A. . . . A309 (1991) 350
Takahashi, T., see Masuda, K. . . . A309 (1991) 489
Takahashi, Y., see Sugai, I. . . . A303 (1991) 59
Takaki, H., see Kobayashi, M. . . . A306 (1991) 139
Takamatsu, K., see Kobayashi, M. . . . A302 (1991) 443
Takamatsu, K., see Kobayashi, M. . . . A306 (1991) 139
Takamura, S., see Ito, Y. . . . A305 (1991) 269
Takashima, M., see Atwood, W.B. . . . A306 (1991) 446
Takeda, H., K. Davis and L. Delo, Beam quality simulation of the Boeing photoinjector accelerator for the MCTD project . . . A304 (1991) 396
Takeda, H., see Carlsten, B.E. . . . A304 (1991) 587

Takeda, T., see Umetani, K. . . . A301 (1991) 579
Talmadge, S., see Lazar, N.H. . . . A304 (1991) 243
Tamas, G., see Audit, G. . . . A301 (1991) 473
Tan, H.R., see Zhu, R.Y. . . . A302 (1991) 69
Tan, Q.H., see UA1 Collaboration . . . A305 (1991) 331
Tanabe, N., see Ejiri, H. . . . A302 (1991) 304
Tanabe, T., M.C. Teich, T.C. Marshall and J. Galayda, Measurement of photon statistics of wiggler radiation from an electron storage ring . . . A304 (1991) 77
Tanabe, T., K. Noda, T. Honma, M. Kodaira, K. Chida, T. Watanabe, A. Noda, S. Watanabe, A. Mizobuchi, M. Yoshizawa, T. Katayama, H. Muto and A. Ando, Electron cooling experiments at INS . . . A307 (1991) 7
Tanaka, J., see Ejiri, H. . . . A302 (1991) 304
Tanaka, K., see Adarkar, H. . . . A308 (1991) 574
Tanaka, M., T. Ohshima, K. Katori, M. Fujiwara, T. Itahashi, H. Ogata, M. Kondo and L.W. Anderson, 2.45 GHz ECR ion source and expected performance for polarized heavy ion source . . . A302 (1991) 460
Tanaka, M., see Nakayama, S. . . . A302 (1991) 472
Tanaka, N. and T. Matsumoto, The effect of the applied voltage on ionization in a parallel plate ionization chamber . . . A302 (1991) 327
Tanaka, S., see Fujita, K. . . . A308 (1991) 514
Tanaka, S.-I., see Nakashima, H. . . . A310 (1991) 696
Tang, C.M., see Debenham, P.H. . . . A304 (1991) 208
Tang, C.M. and B. Hafizi, Theoretical analysis of radiation pulses in the NIST/NRL FEL oscillator . . . A304 (1991) 497
Tang, C.M., Recent advances in free electron laser theory . . . A304 (1991) 526
Tang, X.W., see Adriani, O. . . . A302 (1991) 53
Tang, X.W., see Hofer, H. . . . A309 (1991) 422
Tang Xiaowei, On the model of the limited streamer mechanism (*Letter to the Editor*) . . . A302 (1991) 186
Tang Xiaowei, Semiempirical law of the non-proportionality of proportional chambers . . . A306 (1991) 212
Tang Xiaowei, Comments on the mechanism of the self-quenching streamer transition (*Letter to the Editor*) . A307 (1991) 580
Taniguchi, T., see Ejiri, H. . . . A302 (1991) 304
Tarjan, E., see Alekseev, G.D. . . . A305 (1991) 344
Tarkovsky, E., see Adriani, O. . . . A302 (1991) 53
Tatchyn, R. and H. Winick, SSRL 1990 – Status and future plans . . . A308 (1991) 13
Tatchyn, R., T. Cremer and P. Csonka, Design considerations for a new weak-field soft X-ray undulator/FEL driver for PEP . . . A308 (1991) 152
Taufer, M., see D'Ambrosio, C. . . . A306 (1991) 549
Taufer, M., see D'Ambrosio, C. . . . A307 (1991) 430
Taurok, A., see Botlo, M. . . . A302 (1991) 331
Tavernier, S., see Bruyndonckx, P. . . . A310 (1991) 107
Tavernier, S., see Guerard, B. . . . A310 (1991) 116
Tavernier, S., see Buytaert, J. . . . A310 (1991) 596
Taylor, T., see Dolgosheina, E. . . . A301 (1991) 451
Taylor, T. and J.S.C. Wills, A high-current low-emittance dc ECR proton source . . . A309 (1991) 37
Tazawa, S., see Kawakubo, T. . . . A306 (1991) 426
Tazzari, S., see Pagani, C. . . . A304 (1991) 251
Tazzioli, F., see Castellano, M. . . . A304 (1991) 204
Tecchio, L., see Calabrese, R. . . . A309 (1991) 21
Tecimer, M., see Elias, L.R. . . . A304 (1991) 219
Teegarden, B.J., see Pascarelle, S.M. . . . A302 (1991) 388
Teegarden, B.J., see Owens, A. . . . A310 (1991) 681
Teh, K., see Shapira, D. . . . A301 (1991) 76
Teich, M.C., see Tanabe, T. . . . A304 (1991) 77
Tejessy, W., see Atwood, W.B. . . . A306 (1991) 446
Temkin, R.J., see Pendergast, K.D. . . . A304 (1991) 121
Templer, R.H., see Harrison, A. . . . A310 (1991) 220
Templer, R.H., N.A. Warrender, J.M. Seddon, J.M. Davis and A. Harrison, The intrinsic resolution of X-ray imaging plates . . . A310 (1991) 232
Ten Have, I., see Atwood, W.B. . . . A306 (1991) 446
Teramoto, Y., see Fujita, K. . . . A308 (1991) 514
Terekhin, M.A., see Belskiy, A.N. . . . A308 (1991) 190
Ternov, I.M., see Klepikov, N.P. . . . A308 (1991) 113
Ternov, I.M., see Lysov, B.A. . . . A308 (1991) 115
Terrani, M., see Calligarich, E. . . . A307 (1991) 142

Terrien, J.-C., see Aghamir, F. A304 (1991) 155
Terunuma, N., see Haba, J. A303 (1991) 346
Tervisidis, F. and N. Tsagas, A note on the atomic composition and mean Fermi potential of a fluid used in neutron lifetime measurements A305 (1991) 433
Tesch, S., see Ableev, V.G. A306 (1991) 73
Testera, G., see Lagomarsino, V. A307 (1991) 309
Testi, A., see Calligarich, E. A307 (1991) 142
Tether, S., see UA1 Collaboration A305 (1991) 331
Teykal, H., see Bacci, C. A301 (1991) 445
Teykal, H., see UA1 Collaboration A305 (1991) 331
Thalmeier, W., see Folger, H. A303 (1991) 24
The, I., see Cameron, J.M. A305 (1991) 257
Theisen, G., see ZEUS Calorimeter Group A309 (1991) 101
Thevenot, M., see Bardy, J. A304 (1991) 311
Thevenot, M., see Launspach, J. A304 (1991) 368
Thibault, C., see Coc, A. A305 (1991) 143
Thiessen, K.P., see Neissendorfer, F. A308 (1991) 276
Thode, L.E., see Lumpkin, A.H. A304 (1991) 379
Thomas, G.E., J.P. Greene, P. Maier-Komor and R.H. Leonard, Characteristics of various electron beam sources A303 (1991) 162
Thomas, G.E., see Greene, J.P. A303 (1991) 165
Thomas, J., see Atwood, W.B. A306 (1991) 446
Thomas, R.H., see Spooner, N.J.C. A310 (1991) 227
Thomas, S.L., see Allport, P.P. A310 (1991) 155
Thome, Z.D., see Acosta, D. A302 (1991) 36
Thome, Z.D., see Acosta, D. A305 (1991) 55
Thomé, Z.D., see Acosta, D. A308 (1991) 481
Thomé, Z.D., see Acosta, D. A309 (1991) 143
Thompson, A.W., see Raiko, V.I. A308 (1991) 409
Thompson Jr., H., see Lazar, N.H. A304 (1991) 243
Thompson, T., see Hylen, J. A310 (1991) 497
Thorsteinsen, T., see Andersen, E. A301 (1991) 69
Thun, R., see Badgett, W. A307 (1991) 231
Thurn, H., see Cindro, V. A309 (1991) 411
Thut, R., see Schefer, J. A310 (1991) 416
Tiberio, R.C., see Gabutti, A. A306 (1991) 220
Tiecke, H., see ZEUS Calorimeter Group A309 (1991) 101
Tieger, D.R., see Backenstoss, G. A310 (1991) 518
Tikhonov, V.V., see Fedyakin, N.N. A301 (1991) 121
Tikhonov, V.V., see Krasnokutsky, R.N. A309 (1991) 339
Timellini, R., see Alvisi, C. A305 (1991) 30
Timmermans, C.J., see Botman, J.I.M. A304 (1991) 192
Tinslay, J., see Cameron, J.M. A305 (1991) 257
Tinsley, J.R., see Morgan, G.L. A308 (1991) 544
Tisserant, S., see Fréjus Collaboration A302 (1991) 406
Tisserant, S., see Moreau, F. A306 (1991) 309
Titov, A. and A. Yarov, The "self-diffraction" of synchrotron radiation by the edge of a magnetic field A308 (1991) 117
Titov, A.V., see Grishanin, A.B. A308 (1991) 120
Titov, A.V., see Demyanov, G.V. A308 (1991) 149
Titov, V.A., see Artukh, A.G. A306 (1991) 123
Tiunov, S.A., see Fedotov, M.G. A308 (1991) 423
Tiunov, S.A., see Fedotov, M.G. A308 (1991) 427
Tokar, R., see Dowell, D.H. A304 (1991) 1
Tokar, R., see Laucks, M.L. A304 (1991) 25
Tokar, R.L., see Dowell, D.H. A304 (1991) 336
Tokar, R.L., see Goldstein, J.C. A304 (1991) 622
Toki, H., see Yamazaki, T. A305 (1991) 406
Tokmenin, V.V., see Alekseev, G.D. A305 (1991) 344
Tokushuku, K., see ZEUS Calorimeter Group A309 (1991) 101
Toledo, R., see Alekseev, G.D. A305 (1991) 344
Tolochko, B.P., see Neissendorfer, F. A308 (1991) 276

Tomasini, G., see WA82 Collaboration A309 (1991) 401
Tomimasu, T., see Yamada, K. A304 (1991) 86
Tomimasu, T., Development of five compact storage rings, TERAS and NIJI-I–IV, at ETL A308 (1991) 6
Tomimasu, T., see Yamazaki, T. A309 (1991) 343
Tomita, W., see Dowell, D.H. A304 (1991) 1
Tomita, Y., see Ideno, K. A302 (1991) 385
Tonelli, G., see Batignani, G. A310 (1991) 160
Tong Dechun, see Zhao Zhentang A307 (1991) 132
Tonisch, F., see Akbari, H. A302 (1991) 415
Tonwar, S.C., see Adriani, O. A302 (1991) 53
Toothacker, W., see Bromberg, C. A307 (1991) 292
Töpper, J., see Alrutz-Ziemssen, K. A304 (1991) 159
Töpper, J., see Alrutz-Ziemssen, K. A304 (1991) 300
Torassa, E., see WA82 Collaboration A309 (1991) 401
Torizuka, Y., see Shibata, Y. A301 (1991) 161
Torokhov, V.D., see Abramov, A.A. A302 (1991) 529
Torre, A., see Castellano, M. A304 (1991) 204
Torre, A., see Dattoli, G. A304 (1991) 541
Torre, P., see Antoniazzi, L. A307 (1991) 312
Torrente-Lujan, E., see Bacci, C. A301 (1991) 445
Torrente-Lujan, E., see UA1 Collaboration A305 (1991) 331
Touchard, F., see Coc, A. A305 (1991) 143
Toyoda, K., see Kawamura, Y. A304 (1991) 111
Tracy, J.G., Status of the isotope enrichment program at Oak Ridge National Laboratory A303 (1991) 3
Trahern, C.G., see Frautschi, M. A307 (1991) 52
Trakhtenberg, E.M., see Anashin, V.V. A308 (1991) 45
Trakhtenberg, E.M., see Anashin, V.V. A308 (1991) 50
Trakhtenberg, E.M., see Erg, G.I. A308 (1991) 57
Trakhtenberg, E.M., see Lyakh, V.V. A308 (1991) 327
Trakhtenberg, E.M., see Anashin, V.V. A308 (1991) 467
Trapani, P.P., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Trarieux, J., see Bois, R. A304 (1991) 315
Travier, C., Rf guns: bright injectors for FEL A304 (1991) 285
Traxler, J., see Andersen, E. A301 (1991) 69
Tremaud, C., see Dei-Cas, R. A304 (1991) 212
Treshchin, V.A., see Artemiev, A.N. A308 (1991) 61
Trespi, P., see Bianco, S. A305 (1991) 48
Tricoire, H., see Bendali, M. A310 (1991) 373
Tricoire, H., see Charon, Y. A310 (1991) 379
Triggiani, G., see Batignani, G. A310 (1991) 160
Trinks, U., see Grundey, T. A306 (1991) 21
Trinks, U., Longitudinal particle dynamics in the Tritron A306 (1991) 27
Tripard, G., see Garnett, R. A309 (1991) 508
Trockenheim, S., see Bartoszek, L. A301 (1991) 47
Tröndle, B., see ZEUS Calorimeter Group A309 (1991) 101
Trow, M.W., see Lapington, J.S. A310 (1991) 299
Trow, M.W., J.S. Lapington and R.D. Bentley, Position sensitive detector with wedge-and-wedge readout ... A310 (1991) 344
Trower, W.P., Three physics applications using time digitizing modules A301 (1991) 129
Trukhin, A., see Vishnakov, V. A308 (1991) 227
Trunova, V.A., see Khvostova, V.P. A308 (1991) 315
Trunova, V.A., V.S. Danilovich, V.B. Baryshev and K.V. Zolotarev, Application of SR-XFA for identification of the basic composition of high-temperature superconductors A308 (1991) 321
Trützschler, K., see Chilingarov, A. A310 (1991) 277
Trzaska, W.H., see Parmonen, J.M. A306 (1991) 504
Trzupek, A., see Gress, J. A302 (1991) 368
Tsagas, N., see Tervisidis, F. A305 (1991) 433
Tschalär, C., Internal targets in recirculating beams: luminosity gain and beam halo A308 (1991) 471
Tsigel'nitskii, Yu.N., see Anevsky, S.I. A308 (1991) 165
Tsuboyama, T., see Oyama, T. A305 (1991) 71
Tsui, T., see Fujita, K. A308 (1991) 514
Tsukishima, C., see Sato, S. A304 (1991) 649

Tsunawaki, T., see Mima, K. . . . A304 (1991) 93
Tsunawaki, Y., see Ohigashi, N. . . . A304 (1991) 476
Tsunawaki, Y., N. Ohigashi, K. Mima, T. Akiba, S. Kuruma, K. Imasaki, S. Nakai and L.R. Elias, Focusing permanent magnet undulator . . . A304 (1991) 753
Tsup, A.R., see Artemiev, A.N. . . . A308 (1991) 61
Tsurugai, T., see ZEUS Calorimeter Group . . . A309 (1991) 101
Tsvetkova, T.N., see Artemiev, V.A. . . . A303 (1991) 309
Tuleushev, Yu.Zh., see Kadyrzhanov, K.K. . . . A308 (1991) 308
Tulupov, A.V., see Bazylev, V.A. . . . A304 (1991) 427
Tung, K.L., see Adriani, O. . . . A302 (1991) 53
Turala, M., see Hietanen, I. . . . A305 (1991) 173
Turala, M., see Hubbeling, L. . . . A310 (1991) 197
Turala, M., see Hietanen, I. . . . A310 (1991) 677
Turbal, A.V., see Sheremetyev, I.A. . . . A308 (1991) 447
Turbal, A.V., see Sheremetyev, I.A. . . . A308 (1991) 451
Turchetta, R., see Hietanen, I. . . . A305 (1991) 173
Turchetta, R., see Hubbeling, L. . . . A310 (1991) 197
Turchetta, R., see Hietanen, I. . . . A310 (1991) 677
Türler, A., see Gäggeler, H.W. . . . A309 (1991) 201
Turnchanovich, L.K., see Buzulutskov, A.F. . . . A306 (1991) 177
Turrell, B.G., see Le Gros, M. . . . A310 (1991) 224
Turri, E., see Babusci, D. . . . A305 (1991) 19
Turtelli, A., see Cresti, M. . . . A306 (1991) 563
Tusi, A., see Bacci, C. . . . A301 (1991) 445
Tuts, P.M., see Schamberger, R.D. . . . A309 (1991) 450
Tuuva, T., see Hietanen, I. . . . A301 (1991) 116
Tuuva, T., see Hietanen, I. . . . A305 (1991) 173
Tuuva, T., see Lindgren, J. . . . A307 (1991) 448
Tuuva, T., see Hubbeling, L. . . . A310 (1991) 197
Tuuva, T., see Hietanen, I. . . . A310 (1991) 671
Tuuva, T., see Hietanen, I. . . . A310 (1991) 677
Tuzzolino, A.J., Two-dimensional position-sensing PVDF dust detectors for measurement of dust particle trajectory, velocity, and mass . . . A301 (1991) 558
Twenhöfel, C.J.W., see Schotanus, P. . . . A310 (1991) 523
Tyrroff, H., H. Danared and L. Liljeby, Gun optimization for an electron-beam ion source (*Letter to the Editor*) . . . A301 (1991) 591
Tyukov, V.E., see Denisov, A.G. . . . A310 (1991) 479

UA1 Collaboration, see Bacci, C. . . . A301 (1991) 445
UA1 Collaboration, R. Apsimon, C. Bacci, G. Bauer, A. Bezaguet, D. Bloess, J.M. Bodenes, R. Bonino, C. Buchanan, G. Busetto, A. Caner, L. Casoli, H. Castilla-Valdez, F. Cavanna, P. Cennini, S. Centro, F. Ceradini, R. Conte, M. Della Negra, A. DiCiaccio, M. De Giorgi, F.J. Diez-Hedo, D. Drijard, L. Dumps, H. Evans, A. Ferrando, T. Fuess, A. Givernaud, A. Gonidec, J. Gronberg, M.I. Josa, W. Kienzle, M. Krammer, F. Lacava, M. Lindgren, D. Marchand, R. Martinelli, G. Maurin, A. Meneguzzo, M. Mohammadi, K. Morgan, R.C. Muñoz, L. Naumann, P. Nedelec, S. Otwinowski, E. Petrolo, G. Piano-Mortari, A. Placci, L. Pontecorvo, E. Radermacher, J.P. Revol, D. Robinson, T. Rodrigo, C. Rubbia, D. Schinzel, W.F. Schmidt, C. Seez, W. Seidl, D. Stork, C. Stubenrauch, K. Sumorok, Q.H. Tan, S. Tether, H. Teykal, E. Torrente-Lujan, O. Ullaland, M.W. van de Guchte, S. Veneziano, T.S. Virdee, V. Vuillemin, G. Walzel, I. Wingerter, X. Wu and P.L. Zotto, Performance of a uranium/tetramethylpentane calorimeter backed by an iron/scintillator calorimeter . . . A305 (1991) 331
Uchimura, M., see Fujita, K. . . . A308 (1991) 514
Udo, F., see Hartjes, F. . . . A310 (1991) 88
Ueda, K., see Umetani, K. . . . A301 (1991) 579
Uehara, S., see Arai, Y. . . . A301 (1991) 497
Ueki, T., Biopolymers and solution X-ray scattering. Is it useful in structural research in biology? . . . A303 (1991) 464
Ueno, K., Tracking in an inhomogeneous solenoid . . . A309 (1991) 179
Uijterwaal, H., see ZEUS Calorimeter Group . . . A309 (1991) 101
Ujiie, N., see Ikeda, H. . . . A308 (1991) 596
Ulbricht, J., see Adriani, O. . . . A302 (1991) 53
Ullaland, O., see Bacci, C. . . . A301 (1991) 445
Ullaland, O., see UA1 Collaboration . . . A305 (1991) 331

Ullmann, R., see ZEUS Calorimeter Group A309 (1991) 101
Ullrich, H., see Backenstoss, G. A310 (1991) 518
Umetani, K., K. Ueda, T. Takeda, M. Akisada, T. Nakajima and I. Anno, Iodine K-edge dual-energy imaging for subtraction angiography using synchrotron radiation and a 2-dimensional detector A301 (1991) 579
Underwood, D., see Garnett, R. A309 (1991) 508
Uozumi, Y., see Koori, N. A307 (1991) 581
Urasawa, S., see Shibata, Y. A301 (1991) 161
Urban, D., see Arends, J. A306 (1991) 89
Urbanus, W.H., see van Amersfoort, P.W. A304 (1991) 168
Uritani, A., see Mori, C. A310 (1991) 437
Ushakov, V.A., see Anashin, V.V. A308 (1991) 45
Ushakov, V.A., see Anashin, V.V. A308 (1991) 50
Ushakov, V.A., see Korchuganov, V.N. A308 (1991) 54
Ushakov, V.A., see Erg, G.I. A308 (1991) 57
Ushkov, V.L., see Artemiev, A.N. A308 (1991) 61
Utku, S., see Ross, W. A310 (1991) 493
Uvarova, T.V., see Aleksandrov, Yu.M. A308 (1991) 208
Uvarova, T.V., see Britvich, G.I. A308 (1991) 509
Uwamino, Y., see Shin, K. A308 (1991) 609

Vacchi, A., A. Castoldi, S. Chinnici, E. Gatti, A. Longoni, F. Palma, M. Sampietro, P. Rehak and J. Kemmer, Performance of the UA6 large-area silicon drift chamber prototype A306 (1991) 187
Vager, Z., see Berkovits, D. A302 (1991) 379
Vagneron, L., see Chambon, B. A307 (1991) 333
Valat, J., Differential equations for the energy of a single particle in a helicoidal wiggler with invariant guiding field and travelling plasma wave (non-self-consistent Raman regime) A304 (1991) 502
Valentin, L., see Bendali, M. A310 (1991) 373
Valentin, L., see Charon, Y. A310 (1991) 379
Valentinov, A.G., see Anashin, V.V. A308 (1991) 45
Valentinov, A.G., see Korchuganov, V.N. A308 (1991) 54
Valentinov, A.G., see Erg, G.I. A308 (1991) 57
Valkár, Š., see Antoš, J. A302 (1991) 277
Valkárová, A., see Antoš, J. A302 (1991) 277
Vallazza, E., see Lund–Milano–Torino–Trieste Collaboration A305 (1991) 320
Vallerga, J.V., O.H.W. Siegmund, P.W. Vedder and J.L. Gibson, Investigations of the small-scale flat field response of microchannel plate detectors in the far and extreme ultraviolet A310 (1991) 317
Valli, K., see Iivonen, A. A307 (1991) 69
van Amersfoort, P.W., R.J. Bakker, J.B. Bekkers, R.W.B. Best, R. van Buuren, P.F.M. Delmee, B. Faatz, C.A.J. van der Geer, P. Hellingman, D.A. Jaroszynski, P. Manintveld, W.J. Mastop, B.J.H. Meddens, A.F.G. van der Meer, J.P. Nijman, D. Oepts, J. Pluygers, Wang Wei and M.J. van der Wiel, Update on FELIX A304 (1991) 163
van Amersfoort, P.W., W.H. Urbanus, A.G.A. Verhoeven, A. Verheul, A.B. Sterk, A.M. van Ingen and M.J. van der Wiel, An electrostatic free electron maser for fusion: design considerations A304 (1991) 168
van Amersfoort, P.W., see Bakker, R.J. A304 (1991) 173
van Amersfoort, P.W., see Faatz, B. A304 (1991) 551
Van Amersfoort, P.W., see Bakker, R.J. A307 (1991) 543
Van Amersfoort, P.W., see Van der Geer, C.A.J. A307 (1991) 553
Van Beek, G., see Buytaert, J. A310 (1991) 596
Van Belle, P., see Elevant, T. A306 (1991) 331
Van Breda, I.G., see Carter, M.K. A310 (1991) 305
van Buuren, R., see van Amersfoort, P.W. A304 (1991) 163
van de Guchte, M.W., see UA1 Collaboration A305 (1991) 331
van der Geer, C.A.J., see van Amersfoort, P.W. A304 (1991) 163
van der Geer, C.A.J., see Bakker, R.J. A304 (1991) 173
Van der Geer, C.A.J., see Bakker, R.J. A307 (1991) 543
van der Geer, C.A.J., R.J. Bakker, A.F.G. van der Meer, P.W. van Amersfoort, W.A. Gillespie and G. Saxon, Bunching of an intense electron beam extracted from a triode gun modulated at 1 GHz A307 (1991) 553
van der Graaf, H., J. Buskens, G. Faber, A. König, P. Rewiersma and T. Wijnen, The honeycomb strip chamber: the application in LHC/SSC experiments and the test results of a prototype A307 (1991) 220
van der Meer, A.F.G., see van Amersfoort, P.W. A304 (1991) 163
van der Meer, A.F.G., see Bakker, R.J. A304 (1991) 173

Van der Meer, A.F.G., see Bakker, R.J. . . . A307 (1991) 543
Van der Meer, A.F.G., see Van der Geer, C.A.J. . . . A307 (1991) 553
van der Slot, P.J.M., C. Penman and W.J. Witteman, Status report of the Twente University Raman free electron laser . . . A304 (1991) 268
Van der Steenhoven, G., see Backenstoss, G. . . . A310 (1991) 518
van der Wiel, M.J., see van Amersfoort, P.W. . . . A304 (1991) 163
van der Wiel, M.J., see van Amersfoort, P.W. . . . A304 (1991) 168
Van der Zwan, L., see Faddegon, B.A. . . . A301 (1991) 138
Van Doninck, W., see Buytaert, J. . . . A310 (1991) 596
Van Dyk, G., see McLaughlin, W.L. . . . A302 (1991) 165
van Eijk, C.W.E., see Schooneveld, E.M. . . . A305 (1991) 581
Van Eijk, C.W.E., see Dorenbos, P. . . . A310 (1991) 236
Van Eijk, C.W.E., see Schooneveld, E.M. . . . A310 (1991) 385
Van Geest, L.K. and K.W.J. Stoop, Hybrid phototube with Si target . . . A310 (1991) 261
Van Gestel, J., see Tagziria, H. . . . A303 (1991) 123
Van Gestel, J., see Pauwels, J. . . . A303 (1991) 133
Van Gestel, J., see Eykens, R. . . . A303 (1991) 152
Van Ginneken, A., Smoothing algorithm for histograms of one or more dimensions . . . A305 (1991) 453
Van Hecke, H., see Simon-Gillo, J. . . . A309 (1991) 427
van Ingen, A.M., see van Amersfoort, P.W. . . . A304 (1991) 168
Van Lancker, L., see Buytaert, J. . . . A310 (1991) 596
Van Nieuwenhuizen, G.J., see Schotanus, P. . . . A310 (1991) 523
Van Oers, W.T.H., see Abegg, R. . . . A306 (1991) 432
Van Oers, W.T.H., see Berdoz, A.R. . . . A307 (1991) 26
van Stekelenborg, J.T.P.M., see Walker, A. . . . A301 (1991) 574
Van Verst, S.P., see Lourie, R.W. . . . A306 (1991) 83
van Well, A.A., V.O. de Haan and D.F.R. Mildner, The average number of reflections in a curved neutron guide . . . A309 (1991) 284
Vandecasteele, C., see Ingelbrecht, C. . . . A303 (1991) 119
Vander Molen, A., M.R. Maier, M. Robertson and G.D. Westfall, A fast data-bus to buffer-memory interface A307 (1991) 116
Vander Velde, C., see Buytaert, J. . . . A310 (1991) 596
Vanoli, S., see Ripamonti, G. . . . A310 (1991) 184
Vanstraelen, G., C. Claeys, I. Debusschere and G. Declerck, Design implications of a p-well CMOS technology for the realization of monolithic integrated pixel arrays . . . A305 (1991) 541
Vapirev, E.I. and A.V. Hristova, Quantitative analysis of a mixture of beta-emitters . . . A307 (1991) 126
Varelas, N., see Bromberg, C. . . . A307 (1991) 292
Varfolomeev, A.A., see Aghamir, F. . . . A304 (1991) 155
Varfolomeev, A.A. and M.M. Pitatelev, Harmonic generation with an external laser beam in a dual undulator A304 (1991) 507
Vartsky, D., A. Breskin, R. Chechik, M.B. Goldberg and G. Malamud, Sub-keV X-ray detection with a low-pressure multistep detector . . . A301 (1991) 96
Vartsky, D., see Breskin, A. . . . A310 (1991) 57
Vascon, M., see Cavestro, A. . . . A305 (1991) 488
Vasil'chenko, V.G., see Kobayashi, M. . . . A302 (1991) 443
Vasil'chenko, V.G., see Abramov, A.A. . . . A302 (1991) 529
Vasil'chenko, V.G., see Buzulutskov, A.F. . . . A306 (1991) 177
Vasil'chenko, V.G., see Britvich, G.I. . . . A308 (1991) 509
Vasil'chenko, V.G., see Denisov, A.G. . . . A310 (1991) 479
Vasilev, S.E., see Zanevsky, Yu.V. . . . A310 (1991) 362
Vasilyev, A.A., see Artemiev, A.N. . . . A308 (1991) 61
Vayaki, A., see Atwood, W.B. . . . A306 (1991) 446
V.d. Lugt, H., see ZEUS Calorimeter Group . . . A309 (1991) 101
Vedder, P.W., see Vallerga, J.V. . . . A310 (1991) 317
Vedrenne, G., see Slassi-Sennou, A.S. . . . A305 (1991) 200
Velghe, M., see Couprie, M.E. . . . A304 (1991) 53
Velghe, M., see Couprie, M.E. . . . A304 (1991) 58
Velghe, M., see Prazeres, R. . . . A304 (1991) 72
Veneziano, S., see Bacci, C. . . . A301 (1991) 445
Veneziano, S., see UA1 Collaboration . . . A305 (1991) 331
Verbeni, R., see Poulsen, J.M. . . . A310 (1991) 398
Verbeure, F., see Buytaert, J. . . . A310 (1991) 596
Vercesi, V., see Acosta, D. . . . A302 (1991) 36

Vercesi, V., see Acosta, D. . . . A305 (1991) 55
Vercesi, V., see Acosta, D. . . . A308 (1991) 481
Vercesi, V., see Acosta, D. . . . A309 (1991) 143
Verdonk, J., see Tagziria, H. . . . A303 (1991) 123
Verheul, A., see van Amersfoort, P.W. . . . A304 (1991) 168
Verhoeven, A.G.A., see van Amersfoort, P.W. . . . A304 (1991) 168
Vermeulen, D., see Gäggeler, H.W. . . . A309 (1991) 201
Vernetto, S., see Bilokon, H. . . . A303 (1991) 381
Vernyi, A.E., see Anevsky, S.I. . . . A308 (1991) 35
Vernyi, A.E., see Anevsky, S.I. . . . A308 (1991) 165
Verschuur, J.W.J., see Botman, J.I.M. . . . A304 (1991) 192
Veshcherevich, V.G., see Gavrilov, N.G. . . . A304 (1991) 228
Veshcherevich, V.G., see Anashin, V.V. . . . A308 (1991) 45
Veshcherevich, V.G., P.D. Vobly, G.N. Kulipanov, N.A. Mezentsev, L.G. Morgunov, A.A. Ovchinnikov and V.N. Ponedelko, Compact superconducting storage ring with azimuthal symmetry – SR source for technological purposes . . . A308 (1991) 102
Vetlitsky, I., see Adriani, O. . . . A302 (1991) 53
Vetrovec, J., Performance model for FEL wigglers . . . A304 (1991) 759
Viaggi, F., see WA82 Collaboration . . . A309 (1991) 401
Vialle, J.P., see RD3 Collaboration . . . A309 (1991) 438
Viano, J.B., see Chambon, B. . . . A307 (1991) 333
Viano, J.B., see Désesquelles, P. . . . A307 (1991) 366
Viertel, G., see Akbari, H. . . . A302 (1991) 415
Viesti, G., see Chambon, B. . . . A307 (1991) 333
Vieu, Ch., see Dionisio, J.S. . . . A303 (1991) 9
Vignola, G., see Bartalucci, S. . . . A309 (1991) 355
Villalobos-Baillie, O., see WA84 Collaboration . . . A310 (1991) 485
Vilt, E., see Kuznetsov, A. . . . A308 (1991) 92
Vinogradov, A.V., see Alexandrov, Yu.M. . . . A308 (1991) 340
Vinokurov, N.A., see Couprie, M.E. . . . A304 (1991) 47
Vinokurov, N.A., see Gavrilov, N.G. . . . A304 (1991) 63
Vinokurov, N.A., see Litvinenko, V.N. . . . A304 (1991) 66
Vinokurov, N.A., see Gavrilov, N.G. . . . A304 (1991) 228
Vinokurov, N.A., see Pinayev, I.V. . . . A304 (1991) 786
Vinokurov, N.A., Free electron lasers with electron storage rings . . . A308 (1991) 24
Vinokurov, N.A., see Couprie, M.-E. . . . A308 (1991) 39
Vinokurov, N.A., see Kulipanov, G.N. . . . A308 (1991) 106
Vinokurov, N.A., see Gavrilov, N.G. . . . A308 (1991) 109
Virdee, T.S., see Bacci, C. . . . A301 (1991) 445
Virdee, T.S., see UA1 Collaboration . . . A305 (1991) 331
Vishnakov, V. and A. Trukhin, Photoelectric emission and electronic structure of silicates: SiO_2 and $Na_2O \cdot 3SiO_2$ . . . A308 (1991) 227
Vishnievski, I.N., see Artukh, A.G. . . . A306 (1991) 123
Vismara, L., see Borchi, E. . . . A301 (1991) 215
Visschers, J.L., see Steijger, J. . . . A310 (1991) 509
Visser, R., see Dorenbos, P. . . . A310 (1991) 236
Vitale, S., see Dambra, R. . . . A302 (1991) 83
Vitman, V.D., see Alkhazov, G.D. . . . A306 (1991) 400
Vittone, M., see Bellini, G. . . . A305 (1991) 395
Vitulo, P., see Bianco, S. . . . A305 (1991) 48
Vobly, P.D., see Gavrilov, N.G. . . . A304 (1991) 63
Vobly, P.D., see Gavrilov, N.G. . . . A304 (1991) 228
Vobly, P.D., see Anashin, V.V. . . . A308 (1991) 45
Vobly, P.D., see Veshcherevich, V.G. . . . A308 (1991) 102
Vobly, P.D., see Gavrilov, N.G. . . . A308 (1991) 109
Vogel, W., see ZEUS Calorimeter Group . . . A309 (1991) 101
Vogt, J.M., see Clayton, J. . . . A305 (1991) 116
Volkov, A.D., A.V. Voskanian, O.G. Voskerchian, B.J. Zalikhanov, G. Kalmar, A.J. Ketikian, E.V. Komissarov, V.S. Kurbatov, V.Z. Serdyuk and V.V. Sidorkin, Method for the calculation of charged particle momentum in magnetic spectrometers . . . A306 (1991) 278
Volobuev, A.I., see Babichev, E.A. . . . A310 (1991) 449

von Laven, S., Crossed-field wiggler A304 (1991) 738
von Przewoski, B., see Pitts, W.K. A302 (1991) 382
Vorbrugg, W., see Knauf, K. A305 (1991) 419
Vorobiev, I., see Adriani, O. A302 (1991) 53
Vorobiev, I., see Adeva, B. A309 (1991) 318
Vorobyov, A.A., V.S. Guselnikov, A.Yu. Maiorov, O.E. Prokofiev and V.M. Zaitsev, Monitoring of electron drift velocity in drift chambers with α-delay recoils (*Letter to the Editor*) A301 (1991) 167
Voskanian, A.V., see Volkov, A.D. A306 (1991) 278
Voskanjan, A.V., see Kalmar, H. A307 (1991) 279
Voskerchian, O.G., see Volkov, A.D. A306 (1991) 278
Voszka, R., see Keszthelyi-Lándori, S. A303 (1991) 374
Vouillarmet, J., see Dei-Cas, R. A304 (1991) 215
Vouillarmet, J., see Balleyguier, P. A304 (1991) 308
Voutilainen, M., see Hietanen, I. A310 (1991) 671
Vuaridel, B., see Roser, T. A301 (1991) 42
Vuillemin, V., see Bacci, C. A301 (1991) 445
Vuillemin, V., see UA1 Collaboration A305 (1991) 331

WA82 Collaboration, M. Adamovich, Y. Alexandrov, F. Antinori, D. Barberis, W. Beusch, F. Bourgeois, A. Buys, M. Dameri, M. Davenport, J.P. Dufey, A. Forino, B.R. French, S. Gerasimov, R. Gessaroli, F. Grard, E. Heijne, R. Hurst, A. Jacholkowski, P. Jarron, A. Kirk, J.C. Lassalle, P. Legros, L. Malferrari, P. Martinengo, P. Mazzanti, C. Meroni, F. Muller, B. Osculati, A. Quareni, N. Redaelli, L. Rossi, G. Tomasini, E. Torassa, F. Viaggi and M. Zavertyaev, A microstrip vertex detector for studying charm hadroproduction A309 (1991) 401
WA84 Collaboration, M. Adinolfi, C. Angelini, F. Antinori, W. Beusch, A. Cardini, D.J. Crennell, M. De Vincenzi, C. Da Via, M. Di Paolo, G. Di Vita, A. Duane, J.-P. Fabre, V. Flaminio, A. Frenkel, T. Gys, K. Harrison, E. Lamanna, D. Lucchesi, G. Martelloti, J.G. McEwen, D.R.O. Morrison, G. Penso, S. Petrera, C.M.A. Roda, A. Sciubba, O. Villalobos-Baillie and D.M. Websdale, Application of a scintillating-fibre detector to the study of short-lived particles A310 (1991) 485
Wadhawa, M., see Adriani, O. A302 (1991) 53
Wagemans, C., see Eykens, R. A303 (1991) 152
Wainstein, L.A., A.I. Kleev and V.A. Solntzev, Radiation from the relativistic electron interacting with the whispering-gallery mode A308 (1991) 94
Wait, G.D., see Abegg, R. A306 (1991) 432
Waldmeier, S., see Akbari, H. A302 (1991) 415
Walenta, A.H., see Badura, A. A310 (1991) 441
Walenta, A.H., see Besch, H.J. A310 (1991) 446
Walker, A., A.M. Hillas, M.A. Pomerantz, P.T. Reynolds, J.C. Perrett, J.T.P.M. van Stekelenborg, A.A. Watson and T.C. Weekes, Measurement of the angular resolution of an extensive air shower array using a Cherenkov light detector A301 (1991) 574
Walker, W.D., see Oh, S.H. A303 (1991) 277
Wallace, P.A., see Audit, G. A301 (1991) 473
Wallace, R. and K.C.D. Chan, Wakefield effects of auxiliary beamline elements A304 (1991) 400
Wallraff, W., see Adriani, O. A302 (1991) 53
Walsh, J.E., see Ciocci, F. A304 (1991) 17
Walsh, J.E., see Price, E.J. A304 (1991) 133
Walsh, J.E., see Fisch, E.E. A304 (1991) 679
Waltham, N., see Carter, M.K. A310 (1991) 305
Walzel, G., see Botlo, M. A302 (1991) 331
Walzel, G., see UA1 Collaboration A305 (1991) 331
Wang, D.X., see Wang, J.G. A301 (1991) 19
Wang, D.X., see Wang, J.G. A307 (1991) 190
Wang, H., see Bettini, A. A305 (1991) 177
Wang, J.G., D.X. Wang, E. Boggasch, D. Kehne, M. Reiser and T. Shea, Design and performance characteristics of a compact induction acceleration module for longitudinal pulse compression experiments A301 (1991) 19
Wang, J.G., D.X. Wang and M. Reiser, Beam emittance measurement by the pepper-pot method A307 (1991) 190
Wang, J.H., see Hofer, H. A309 (1991) 422
Wang, M.C., Zhijiang Wang, Jizhong Chen, Zaitong Lu and Lifen Zhang, Experiments of a Raman free electron laser with distributed feedback cavity A304 (1991) 116
Wang, M.H., see Backenstoss, G. A310 (1991) 518
Wang, P.D., see Spooner, N.J.C. A310 (1991) 227

Wang, X., see Bridges, F. A307 (1991) 316
Wang, X., see Weng, H. A307 (1991) 577
Wang, Y., see Acosta, D. A302 (1991) 36
Wang, Y., see Acosta, D. A305 (1991) 55
Wang, Y., see Acosta, D. A308 (1991) 481
Wang, Y., see Acosta, D. A309 (1991) 143
Wang, Y.F., see Adriani, O. A302 (1991) 53
Wang, Y.F., see Spillantini, P. A307 (1991) 247
Wang, Y.F., see Adeva, B. A309 (1991) 318
Wang, Zhijiang, see Wang, M.C. A304 (1991) 116
Wang Qiuping, see Xu Chaoyin A308 (1991) 645
Wang Qiuyu, see Zhang Yingji A302 (1991) 76
Wang Wei, see van Amersfoort, P.W. A304 (1991) 163
Warden, M., see Amir, A. A304 (1991) 12
Warren, R., Report of panel on compact FELs A304 (1991) 828
Warren, R.W., see Goldstein, J.C. A304 (1991) 449
Warren, R.W., Lasing on higher harmonics A304 (1991) 512
Warren, R.W., see Souza, R. A304 (1991) 687
Warren, R.W. and N. Piovella, Compound wiggler to lase on a selected harmonic A304 (1991) 696
Warren, R.W., Design considerations for pulsed microwigglers A304 (1991) 765
Warrender, N.A., see Templer, R.H. A310 (1991) 232
Watanabe, A., see Shiho, M. A304 (1991) 141
Watanabe, K., see Sekimoto, H. A302 (1991) 150
Watanabe, N., see Inoue, K. A309 (1991) 294
Watanabe, S., see Tanabe, T. A307 (1991) 7
Watanabe, T., see Ejiri, H. A302 (1991) 304
Watanabe, T., see Kohra, K. A303 (1991) 397
Watanabe, T., see Tanabe, T. A307 (1991) 7
Watase, Y., see Haba, J. A303 (1991) 346
Watson, A.A., see Walker, A. A301 (1991) 574
Watson, J.W., see Abegg, R. A306 (1991) 432
Watt, R., see Adams, T. A306 (1991) 128
Wattecamps, E., G. Rollin and M. Keters, A 27 cm^2 scintillator for alpha particle detection of some MeV with 28% energy- and 240 ps time-resolution A309 (1991) 209
Watts, S.J., see Acton, P. A305 (1991) 504
Wear, J., see Atwood, W.B. A306 (1991) 446
Weathers, D.L., J.L. Duggan, R.B. Escue and F.D. McDaniel, Analysis and reduction of low-*Z* contaminants on thin carbon films A303 (1991) 69
Weaverdyck, C., D. Meyer and C. Akerlof, Mirrors for an imaging gamma ray telescope A310 (1991) 690
Webber, C.E., see Ndlovu, A.M. A305 (1991) 484
Webber, W.R., The resolution of plastic scintillators for cosmic ray H and He isotopes (*Letter to the Editor*) . A306 (1991) 403
Weber, A., see Gäggeler, H.W. A309 (1991) 201
Weber, M.F., see Bartoszek, L. A301 (1991) 47
Weber, W., see Storb, Ch. A306 (1991) 544
Webers, G.A., see Botman, J.I.M. A304 (1991) 192
Websdale, D.M., see WA84 Collaboration A310 (1991) 485
Weeber, A.W., see Dai, G.H. A306 (1991) 261
Weekes, T.C., see Walker, A. A301 (1991) 574
Weerasundara, D.D.S., see Bromberg, C. A307 (1991) 292
Wei, J.X., J.R. Leigh, D.C. Weisser, J.O. Newton, S. Elfstrom, J.P. Lestone, J.X. Chen, D.G. Popescu and D.J. Hinde, A compact velocity filter for evaporation residue measurements A306 (1991) 557
Wei, Y., see Fréjus Collaboration A302 (1991) 406
Wei Yongqin, see Zhang Yingji A302 (1991) 76
Weilhammer, P., see Nygård, E. A301 (1991) 506
Weilhammer, P., see Hubbeling, L. A310 (1991) 197
Weilhammer, P., see Hietanen, I. A310 (1991) 677
Weinstein, A., see Hylen, J. A310 (1991) 497
Weinstein, R., see Lau, K. A306 (1991) 397
Weise, H., see Alrutz-Ziemssen, K. A304 (1991) 159
Weise, H., see Alrutz-Ziemssen, K. A304 (1991) 300
Weise, K., M. Weyrauch and K. Knauf, Neutron response of a spherical proton recoil proportional counter . . A309 (1991) 287

Weisser, D.C., see Wei, J.X. A306 (1991) 557
Weisskopf, M.C., see Sakurai, H. A307 (1991) 504
Welch, T.P., see Lourie, R.W. A306 (1991) 83
Wells, A., see Castelli, C. A310 (1991) 240
Wells, K., see Imrie, D.C. A310 (1991) 122
Wender, S.A., see Drake, D.M. A309 (1991) 575
Weng, H., X. Guo, R. Han, X. Shi, J. Zhu, T. Zhao and X. Wang, Low energy positron beam studies of WSi_x/n-Si(111) A307 (1991) 577
Weng, W.T., see Mane, S.R. A306 (1991) 9
Werin, S., M. Eriksson, J. Larsson, A. Persson and S. Svanberg, Harmonic generation at the MAX-lab undulator. Report of the first results A304 (1991) 81
Werkema, S.J., see Bartoszek, L. A301 (1991) 47
Werner, R., see Bitter, T. A309 (1991) 521
Wernick, I., see Marshall, T.C. A304 (1991) 683
Wesselborg, C. and D.E. Alburger, Precision energy measurements of gamma rays from ^{44}Ti and ^{133}Ba A302 (1991) 89
Wesson, D.K., see Oh, S.H. A303 (1991) 277
Westerberg, L., see Whitlow, H.J. A310 (1991) 636
Westfall, G.D., see Vander Molen, A. A307 (1991) 116
Weyer, H.J., see Backenstoss, G. A310 (1991) 518
Weyrauch, M., see Weise, K. A309 (1991) 287
Wheadon, R., see Avset, B.S. A310 (1991) 203
Whitaker, H.L., see Johnson, K.F. A301 (1991) 372
Whitaker, J.S., see Shank, J.T. A309 (1991) 377
White, M.G., see Ben-Zvi, I. A304 (1991) 181
Whitehouse, D.A., see Armijo, V. A303 (1991) 298
Whitford, C.H., see Collier, J. A310 (1991) 565
Whiting, F.B., see Kandiah, K. A305 (1991) 600
Whitlow, H.J., B. Jakobsson and L. Westerberg, Mass resolution of recoil fragment detector telescopes for 0.05–0.5 *A* MeV heavy recoiling fragments A310 (1991) 636
Whitmore, J., see Bromberg, C. A307 (1991) 292
Whittaker, J.K., see Debenham, P.H. A304 (1991) 208
Whitten Jr, C.A., Correction procedures for variable intensity neutron time-of-flight measurements A309 (1991) 264
Whittum, D.H., see Sharp, W.M. A304 (1991) 487
Whittum, D.H., see Sessler, A.M. A306 (1991) 592
Wick, K., see ZEUS Calorimeter Group A309 (1991) 101
Wickens, F.J., see Acton, P. A305 (1991) 504
Wickens, J., see Buytaert, J. A310 (1991) 596
Wicklund, E., see Kuhlen, M. A301 (1991) 223
Wiedenmann, W., see Atwood, W.B. A306 (1991) 446
Wiedner, C., see Feuerstack, M. A310 (1991) 287
Wieleczko, J.P., see Shapira, D. A301 (1991) 76
Wieloch-Laufenberg, N., see Krause, K.-H. A310 (1991) 577
Wigmans, R., see Acosta, D. A302 (1991) 36
Wigmans, R., see Acosta, D. A305 (1991) 55
Wigmans, R., see Acosta, D. A308 (1991) 481
Wigmans, R., see Acosta, D. A309 (1991) 143
Wijnen, T., see Van der Graaf, H. A307 (1991) 220
Wilburn, C.D., see Allport, P.P. A310 (1991) 155
Wildermuth, D., see Drewery, J.S. A310 (1991) 165
Wildi, M., see Backenstoss, G. A310 (1991) 518
Wilhelm, M., see Dreyer, T. A309 (1991) 184
Wilhelmy, J.B., see Fowler, M.M. A303 (1991) 99
Wilkerson, J.F., see Richardson, J.M. A306 (1991) 291
Wilkin, N.D., see Debenham, P.H. A304 (1991) 208
Wilkinson, C., see Armijo, V. A303 (1991) 298
Wilkinson, C. and M.S. Lehmann, Quasi-Laue neutron diffractometer A310 (1991) 411
Wilkinson, D.H., Pulse pile-up III: refinements to ruin theory A307 (1991) 458
Wilkinson, D.H., Pulse pile-up IV: bipolar pulses A307 (1991) 462
Will, G., see Kockelmann, W. A305 (1991) 435
Williams, D., see Francke, T. A307 (1991) 47
Williams, D., see Francke, T. A310 (1991) 146

Williams, M.B., S.E. Sobottka and J.A. Shepherd, Delay line readout of microchannel plates in a prototype position-sensitive photomultiplier tube ... A302 (1991) 105
Williams, M.C.S., see Frautschi, M. ... A307 (1991) 52
Williams, M.C.S., see Mättern, D. ... A310 (1991) 78
Willins, J., see Schamberger, R.D. ... A309 (1991) 450
Willis, W.J., see Dolgosheina, E. ... A301 (1991) 451
Willis, W.J., see Shank, J.T. ... A309 (1991) 377
Willis, W.J., see RD3 Collaboration ... A309 (1991) 438
Wills, J.S.C., see Taylor, T. ... A309 (1991) 37
Wilquet, G., see Bähr, J. ... A306 (1991) 169
Wilson, K.E., see Backenstoss, G. ... A310 (1991) 518
Wilson, M.A.D., see Debenham, P.H. ... A304 (1991) 208
Wingerter, I., see UA1 Collaboration ... A305 (1991) 331
Winick, H., see Tatchyn, R. ... A308 (1991) 13
Winter, K., see Bähr, J. ... A306 (1991) 169
Wirth, H.L., W. Essig, S. Hinderer and J. Kayser, Cobalt-60 source on thin self-supporting carbon foil prepared by molecular plating ... A303 (1991) 106
Witteman, W.J., see Botman, J.I.M. ... A304 (1991) 192
Witteman, W.J., see van der Slot, P.J.M. ... A304 (1991) 268
Witzeling, W., see Atwood, W.B. ... A306 (1991) 446
Woeniger, T., see ZEUS Calorimeter Group ... A309 (1991) 101
Wolbaum, K., see Lolos, G.J. ... A309 (1991) 552
Wolf, B., see Simon-Gillo, J. ... A309 (1991) 427
Wolf, K.L., see Simon-Gillo, J. ... A309 (1991) 427
Wollnik, H., see Fujioka, M. ... A309 (1991) 600
Woloshun, K., see Hylen, J. ... A310 (1991) 497
Womersley, L.A., see Grässler, H. ... A310 (1991) 535
Worgan, J., see Hall, C.J. ... A310 (1991) 215
Worgan, J.S., see Lewis, R. ... A310 (1991) 70
Worris, M., see Bebek, C. ... A302 (1991) 261
Wouters, S.E., see Schooneveld, E.M. ... A305 (1991) 581
Wouters, S.E., S.A. Audet and T. Otaredian, Experimental detector chip for soft X-ray applications ... A305 (1991) 608
Wouters, S.E., see Schooneveld, E.M. ... A310 (1991) 385
Wright, L.H., see Frawley, A.D. ... A306 (1991) 512
Wright, T., see Adams, T. ... A306 (1991) 128
Wu, A., see Kennedy, E.J. ... A307 (1991) 452
Wu, G.-H., see Bromberg, C. ... A307 (1991) 292
Wu, Q.W., see Schamberger, R.D. ... A309 (1991) 450
Wu, R.J., see Adriani, O. ... A302 (1991) 53
Wu, R.J., see Hofer, H. ... A309 (1991) 422
Wu, S.L., see Atwood, W.B. ... A306 (1991) 446
Wu, S.L., see Bellantoni, L. ... A310 (1991) 618
Wu, S.W., see Adriani, O. ... A302 (1991) 53
Wu, X., see UA1 Collaboration ... A305 (1991) 331
Wu, X.D., see Muenchausen, R.E. ... A303 (1991) 204
Wu, Y.G., see Adriani, O. ... A302 (1991) 53
Wu, Z.Q., see Yuan, X.Y. ... A308 (1991) 372
Wu, Z.Q., see He, X.C. ... A308 (1991) 375
Wu Qingwu, see Xie Jialin ... A304 (1991) 770
Wuosmaa, A.H., see Scarlassara, F. ... A309 (1991) 485
Wurtele, J.S., see Jerby, E. ... A304 (1991) 107
Wurtele, J.S., see Sharp, W.M. ... A304 (1991) 487
Wurtele, J.S., see Chen, C. ... A304 (1991) 593
Wurtele, J.S., see Sessler, A.M. ... A306 (1991) 592
Xi, J., R.E. Hollingsworth, R.H. Buitrago, D. Oakley, J.P. Cumalat, U. Nauenberg, J.A. McNeil, D.F. Anderson and V. Perez-Mendez, Minimum ionizing particle detection using amorphous silicon diodes ... A301 (1991) 219
Xian, Dingchang, see Zhang, Lingyi ... A304 (1991) 522
Xie, J.L., see Gao, J. ... A304 (1991) 357
Xie, M., see Kim, K.-J. ... A304 (1991) 146
Xie, M., see Kim, K.-J. ... A304 (1991) 233
Xie, M. and K.-J. Kim, Hole coupling resonator for free electron lasers ... A304 (1991) 792

Xie Jialin, Zhuang Jiejia, Mao Chensheng, Zhong Yuanyuan, Li Yonggui, Ou Yangqun, Zhao Chunnong, Huang Min, Li Chengze and Wu Qingwu, The undulator for the Beijing free electron laser project A304 (1991) 770
Xu, C., see Acosta, D. A302 (1991) 36
Xu, C., see Acosta, D. A305 (1991) 55
Xu, C., see Acosta, D. A308 (1991) 481
Xu, C., see Acosta, D. A309 (1991) 143
Xu, H.Z., see Besch, H.J. A310 (1991) 446
Xu Chaoyin, Zhang Yunwu, Wang Qiuping, Liu Shaoyi and Zhou Hongjun, Linear zone plate monochromator for soft X-ray microscopy A308 (1991) 645

Yagi, K., see Nagasaka, Y. A301 (1991) 109
Yagishita, A., T. Hayaishi, T. Kikuchi and E. Shigemasa, A 24-meter spherical grating monochromator at the Photon Factory A306 (1991) 578
Yagudin, A.A., see Artemiev, A.N. A308 (1991) 459
Yagupov, S.V., see Kotrbova, M. A308 (1991) 456
Yakimenko, M.N., see Aleksandrov, Yu.M. A308 (1991) 208
Yakimenko, M.N., see Demyanov, G.V. A308 (1991) 215
Yakimenko, M.N., see Alexandrov, Yu.M. A308 (1991) 340
Yakimenko, M.N., see Alexandrov, Yu.M. A308 (1991) 343
Yakovlenko, S.I., see Sidorkin, S.F. A306 (1991) 240
Yamada, H., Novel free electron laser named photon storage ring A304 (1991) 700
Yamada, K., T. Yamazaki, S. Sugiyama, T. Tomimasu, T. Mikado, M. Chiwaki, R. Suzuki and H. Ohgaki, Free electron laser experiment at ETL A304 (1991) 86
Yamada, K., see Yamazaki, T. A309 (1991) 343
Yamada, S., see ZEUS Calorimeter Group A309 (1991) 101
Yamada, S., see Sato, Y. A309 (1991) 348
Yamada, S., see Sato, Y. A310 (1991) 693
Yamada, T., see Sato, Y. A309 (1991) 348
Yamada, T., see Sato, Y. A310 (1991) 693
Yamada, Y., see Kumagai, H. A308 (1991) 649
Yamagata, T., see Nakayama, S. A302 (1991) 472
Yamaguchi, K., see Koide, T. A308 (1991) 635
Yamamoto, H., see Kawade, K. A301 (1991) 594
Yamamoto, H., see Graham, G. A307 (1991) 240
Yamamoto, I., see Saito, T. A301 (1991) 568
Yamamoto, K., see Saito, K. A310 (1991) 175
Yamamoto, N., see Ejiri, H. A302 (1991) 304
Yamanaka, C., see Mima, K. A304 (1991) 93
Yamanaka, C., New Japanese FEL program at Osaka A304 (1991) 276
Yamanaka, C., see Ohigashi, N. A304 (1991) 476
Yamanaka, C., see Kuruma, S. A304 (1991) 638
Yamazaki, K., see Sugai, I. A303 (1991) 59
Yamazaki, T., see Yamada, K. A304 (1991) 86
Yamazaki, T., R.S. Hayano and H. Toki, d(HI, ^{3}He) reaction spectroscopy for the formation of pionic bound states A305 (1991) 406
Yamazaki, T., K. Yamada, S. Sugiyama, H. Ohgaki, T. Tomimasu, T. Noguchi, T. Mikado, M. Chiwaki and R. Suzuki, Lasing in visible of a storage-ring free electron laser at ETL A309 (1991) 343
Yanagisawa, C., see Schamberger, R.D. A309 (1991) 450
Yanez, A., see Andersen, E. A301 (1991) 69
Yang, K.S., see Hofer, H. A309 (1991) 422
Yang, T.L., X.L. Zhai, W.Z. Zhou, Z.H. Song, D.Z. Cao, L.H. Pan, S.F. Bu, X.Z. Shi and C. Liu, Rf-driven FEL activity at CIAE A304 (1991) 280
Yankelevich, V.L., see Grinyov, B.V. A306 (1991) 229
Yano, T., see Sugai, I. A303 (1991) 59
Yanovski, V.V., V.A. Chizhov and V.M. Skorikov, BGO crystals – radiation hard scintillators (*Letter to the Editor*) A309 (1991) 596
Yao, W.-M., see Bebek, C. A302 (1991) 261
Yarov, A., see Titov, A. A308 (1991) 117
Yarov, A.S., see Grishanin, A.B. A308 (1991) 120
Yarov, A.S., see Demyanov, G.V. A308 (1991) 149
Yasojima, Y., see Sato, S. A304 (1991) 649

Yasuda, T., see Bromberg, C. A307 (1991) 292
Yatagai, F., see Kumagai, H. A308 (1991) 649
Ye, Y., see Abegg, R. A306 (1991) 432
Yen, S., Statistical uncertainties in live time and detector efficiencies A302 (1991) 493
Yepes, P., see Andersen, E. A301 (1991) 69
Yokohama, A., see Baba, H. A309 (1991) 236
Yokosawa, A., see Garnett, R. A309 (1991) 508
Yonnet, J., see Cameron, J.M. A305 (1991) 257
Yorkston, J., see Antonuk, L.E. A310 (1991) 460
Yosef, C., see Bromberg, C. A307 (1991) 292
Yoshida, K., see Nagaoka, R. A302 (1991) 9
Yoshida, R., A Monte Carlo procedure for Bethe–Heitler production of dileptons with high invariant mass . . A302 (1991) 63
Yoshida, T., see Fujita, K. A308 (1991) 514
Yoshinaka, H., see Murakami, A. A301 (1991) 435
Yoshioka, K., see Nygård, E. A301 (1991) 506
Yoshioka, Y., see Hasegawa, K. A310 (1991) 366
Yoshizawa, M., see Tanabe, T. A307 (1991) 7
Yoshizawa, M., see Nakashima, H. A310 (1991) 696
Yosoi, M., see Matsuoka, N. A305 (1991) 415
You, K., see Acosta, D. A308 (1991) 481
You, K., see Acosta, D. A309 (1991) 143
Young, L.M., see Carlsten, B.E. A304 (1991) 587
Youngman, C., see ZEUS Calorimeter Group A309 (1991) 101
Yovanovitch, D.D., see King, B.J. A302 (1991) 254
Ypsilantis, T., see Hempstead, M. A306 (1991) 207
Yu, L.H., see Ben-Zvi, I. A304 (1991) 181
Yu, L.H., S. Krinsky and R.L. Gluckstern, Universal scaling function for FEL gain A304 (1991) 516
Yu, S.S., see Shay, H.D. A304 (1991) 262
Yuan, D., see Mori, Y. A301 (1991) 1
Yuan, X.Y., C. Gao, S.P. Guo, X.C. He and Z.Q. Wu, Simulation of a multilayer X-ray mirror with fluctuation and systematic deviation of periods A308 (1991) 372
Yuan, X.Y., see He, X.C. A308 (1991) 375
Yuasa, K., see Nakayama, S. A302 (1991) 472
Yuasa, M., see Kobayashi, M. A306 (1991) 139
Yuasa-Nakagawa, K., see Mizota, T. A305 (1991) 125
Yugai, N.F., see Kadyrzhanov, K.K. A308 (1991) 308
Yunkin, V.A., see Aristov, V.V. A308 (1991) 413
Yupinov, Yu.L., see Artemiev, A.N. A308 (1991) 61
Yuri, M., see Koide, T. A308 (1991) 635
Yurkov, M.V., see Saldin, E.L. A307 (1991) 526
Yurkov, M.V., see Saldin, E.L. A307 (1991) 531
Yutori, T., see Fujita, K. A308 (1991) 514

Zabelin, A.V., see Artemiev, A.N. A308 (1991) 61
Žáček, J., see Antoš, J. A302 (1991) 277
Zacek, V., see Bähr, J. A306 (1991) 169
Zaichenko, A.A., see Golovkin, S.V. A305 (1991) 385
Zaichenko, A.A., see Denisov, A.G. A310 (1991) 479
Zaitsev, V.M., see Vorobyov, A.A. A301 (1991) 167
Zalikhanov, B.G., see Kalmar, H. A307 (1991) 279
Zalikhanov, B.J., see Volkov, A.D. A306 (1991) 278
Zallo, A., see Bianco, S. A301 (1991) 279
Zallo, A., see Bianco, S. A305 (1991) 48
Zalmezh, V.F., see Medvedev, A.F. A308 (1991) 124
Zammit, C.C., T.J. Sumner, I.D. Hepburn and P.A.R. Ade, The development of milliKelvin Si bolometers for future X-ray array devices A310 (1991) 244
Zanella, G. and R. Zannoni, Absolute light yield of plastic scintillators and cerium scintillating glasses under low energy X-ray excitation A302 (1991) 352
Zanello, D., see Bini, C. A306 (1991) 467
Zanevsky, Yu.V., G.A. Cheremukhina, S.P. Chernenko, A.B. Ivanov, S.A. Movchan, T. Netusil, L.P. Smykov and S.E. Vasilev, New developments and investigations of PSD at JINR, LHE A310 (1991) 362

Zank, W.P., see Lehmann, M. A309 (1991) 530
Zannoni, R., see Zanella, G. A302 (1991) 352
Zanotti, E., M. Bisenberger, R. Hertenberger, H. Kader and G. Graw, A long position and angle resolving light ion detector for the Munich Q3D magnetic spectrograph (*Letter to the Editor*) A310 (1991) 706
Zaporozhets, S.A., see Ableev, V.G. A306 (1991) 73
Závada, P., see Antoš, J. A302 (1991) 277
Zavertyaev, M., see WA82 Collaboration A309 (1991) 401
Zege, A.V., see Baryshevsky, V.G. A304 (1991) 421
Zege, A.V., Advantages of the "kinetic" amplification regime in a free electron laser with optical undulator . A304 (1991) 520
Zehnder, L., see Akbari, H. A302 (1991) 415
Zeldovich, O.Ya., see Artemiev, V.A. A303 (1991) 309
Zelenskii, A.N., see Buchmann, L. A306 (1991) 413
Zeng Jiyang, Shi Caitu, Sun Jian, Chen Renhuai, Liu Maosan and Chen Shaoxing, Construction and commissioning of the first wiggler at BEPC A308 (1991) 616
Zetta, L., see Guazzoni, P. A305 (1991) 442
Zetti, F., see Bartoli, B. A302 (1991) 515
Zetti, F., see Cresti, M. A306 (1991) 563
ZEUS Calorimeter Group, A. Andresen, A. Bamberger, A. Bargende, F. Barreiro, U. Behrens, S. Bentvelsen, M. Brkic, B. Burow, A. Caldwell, G. Cases, F. Corriveau, J.A. Crittenden, A. Dake, A. Dannemann, J. Dawson, K. Dierks, G. Drews, J. Engelen, H. Fawcett, W. Frisken, A. Fürtjes, D. Gilkinson, L. Hagge, R. Hamatsu, D. Hanna, J. Hartmann, T. Hasegawa, D. Hasell, M. Hazumi, L. Hervás, E. Hilger, U. Holm, T. Ishii, P. de Jong, H. Kammerlocher, S. Kasai, S. Kitamura, R. Klanner, P. Kooijman, U. Kötz, M. Krämer, B. Krebs, W. Kröger, J. Krüger, M. Kuze, G. Levman, T. Lindenberg, H.v.d. Lugt, J. Martin, J. Mayer, J. Mitchell, P. Patel, T. Poser, K. Prange, S. Ritz, M. Rohde, T. Romanowski, E. Ros, H.-L. Schneider, D. Schäcke, W. Schulz, F. Selonke, W. Sippach, G. Smith, G. Stairs, J. Straver, G. Theisen, H. Tiecke, K. Tokushuku, B. Tröndle, T. Tsurugai, H. Uijterwaal, R. Ullmann, W. Vogel, K. Wick, T. Woeniger, S. Yamada and C. Youngman, Construction and beam test of the ZEUS forward and rear calorimeter A309 (1991) 101
Zhai, X.L., see Yang, T.L. A304 (1991) 280
Zhang, G., see Chen, C. A304 (1991) 593
Zhang, L., see Krisch, M. A305 (1991) 208
Zhang, L., see Krisch, M. A308 (1991) 378
Zhang, Lifen, see Wang, M.C. A304 (1991) 116
Zhang, Lingyi and Dingchang Xian, Non-detrapping variable parameter wiggler of free electron lasers A304 (1991) 522
Zhang, W.Z., see Singy, D. A306 (1991) 36
Zhang, Y., see Martoff, C.J. A301 (1991) 376
Zhang, Z.X., see Bidwell, S.W. A304 (1991) 187
Zhang Shuping, see Bruyndonckx, P. A310 (1991) 107
Zhang Shuping, see Guerard, B. A310 (1991) 116
Zhang Yingji, Wei Yongqin, Wang Qiuyu and Qian Wenguo, A position-sensitive microchannel-plate detector for 27-keV ions A302 (1991) 76
Zhang Yunwu, see Xu Chaoyin A308 (1991) 645
Zhao, J., see Ray, R. A307 (1991) 254
Zhao, J.L., see Bartoszek, L. A301 (1991) 47
Zhao, T., see Weng, H. A307 (1991) 577
Zhao Chunnong, see Xie Jialin A304 (1991) 770
Zhao Zhentang, Liu Naiquan, Lin Yuzheng and Tong Dechun, The theory of the harmonically resonant cavity with a self-excited multiple frequency field A307 (1991) 132
Zheng Zheng, Dai Hong-gui, Hu Shang-ze, Liu Jian and Fang Jie, An optical fibre-type silicate glass thermoluminescent detector A301 (1991) 337
Zhevago, N.K., see Denisov, E.I. A308 (1991) 400
Zhigunov, V.P., see Anykeyev, V.B. A303 (1991) 350
Zhiltsov, V.I., see Kovalchuk, M.V. A308 (1991) 1
Zhokhov, A.A., see Stankevich, V.G. A308 (1991) 193
Zholents, A.A., see Gerasimov, A.L. A305 (1991) 25
Zholents, A.A., see Anashin, V.V. A308 (1991) 467
Zhong Yuanyuan, see Xie Jialin A304 (1991) 770
Zhong Zhefu, see Elias, L.R. A304 (1991) 219
Zhou, J.F., see Adriani, O. A302 (1991) 53
Zhou, M., see Bettini, A. A305 (1991) 177
Zhou, T.Q., see Zhu, R.Y. A302 (1991) 69
Zhou, W.Z., see Yang, T.L. A304 (1991) 280

Zhou Hongjun, see Xu Chaoyin A308 (1991) 645
Zhu, J., see Weng, H. A307 (1991) 577
Zhu, R.Y., H. Stone, H. Newman, T.Q. Zhou, H.R. Tan and C.F. He, A study on radiation damage in doped BGO crystals A302 (1991) 69
Zhu, R.-Y., Precision calibration of electromagnetic calorimeters with a radio-frequency quadrupole accelerator A306 (1991) 145
Zhu, Y., see Bebek, C. A302 (1991) 261
Zhuang Jiejia, see Xie Jialin A304 (1991) 770
Zichichi, A., see Adriani, O. A302 (1991) 53
Zichichi, A., see Alvisi, C. A305 (1991) 30
Zichichi, A., see Mattern, D. A310 (1991) 78
Zieger, A., see Krause, K.-H. A310 (1991) 577
Ziegler, B., see Krause, K.-H. A310 (1991) 577
Ziegler, W., see Cameron, J.M. A305 (1991) 257
Zielinski, M., see Bromberg, C. A307 (1991) 292
Ziemann, T., see Klein, P. A305 (1991) 517
Ziemba, F.P., see Martoff, C.J. A301 (1991) 376
Zijlstra, J., see Schippers, J.M. A310 (1991) 540
Zimmerer, G., Status report on luminescence investigations with synchrotron radiation at HASYLAB A308 (1991) 178
Zimmerer, G., see Stankevich, V.G. A308 (1991) 193
Zinin, E.I., see Pustovarov, V.A. A308 (1991) 203
Ziock, H., see Hylen, J. A310 (1991) 497
Ziock, H.-J., see Sailor, W.C. A303 (1991) 285
Zolotarev, K.V., see Khvostova, V.P. A308 (1991) 312
Zolotarev, K.V., see Khvostova, V.P. A308 (1991) 315
Zolotarev, K.V., see Daryin, A.V. A308 (1991) 318
Zolotarev, K.V., see Trunova, V.A. A308 (1991) 321
Zondervan, A., see Steijger, J. A310 (1991) 513
Zotto, P.L., see UA1 Collaboration A305 (1991) 331
Zrelov, P.V. and V.V. Ivanov, The relativistic charged particles identification method based on the goodness-of-fit ω_n^3-criterion A310 (1991) 623
Zrelov, V.P., J. Ružička and V.M. Sheshunov, Test of a raster Cherenkov photodetector in a beam of 3.6 GeV/n relativistic carbon nuclei A302 (1991) 301
Zschech, E., G. Auerswald, E.D. Klinkenberg and B.N. Novgorodov, Short-range order in yttria-stabilized zirconia: an EXAFS study A308 (1991) 255
Zschornack, G., see Shirkov, G.D. A302 (1991) 1
Zubkov, N.I., see Anashin, V.V. A308 (1991) 45
Zucchiatti, A., see Mazzaschi, L. A305 (1991) 391
Zucchiatti, A., see Gervino, G. A309 (1991) 497
Zucht, B., see Arends, J. A306 (1991) 89
Zuev, A.P., see Shabelnikov, L.G. A308 (1991) 305
Zwart, A.N.M., see Steijger, J. A310 (1991) 509
Zybert, R., see Andersen, E. A301 (1991) 69

Nuclear Instruments and Methods in Physics Research
North-Holland

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH
Section A

Subject index to volumes A301–A310

Accelerators, Beam Handling and Targets

Development of the KEK volume H^- ion source, Mori, Y., T. Okuyama, A. Takagi and D. Yuan A301 (1990) 1
Optimization studies of a 14.4 GHz ECR ion source for the superconductive linac at Legnaro, Cavenago, M. and G. Bisoffi A301 (1990) 9
Design and performance characteristics of a compact induction acceleration module for longitudinal pulse compression experiments, Wang, J.G., D.X. Wang, E. Boggasch, D. Kehne, M. Reiser and T. Shea A301 (1990) 19
Quasi-isochronous storage ring, Pellegrini, C. and D. Robin A301 (1990) 27
Energy and tune difference between positrons and electrons due to an asymmetrical rf distribution, Kikuchi, M. A301 (1990) 37
Microwave driven extraction of stabilized spin polarized atomic hydrogen, Roser, T., D.G. Crabb, W.A. Kaufman, R.S. Raymond, J.A. Stewart, B. Vuaridel and G.R. Court A301 (1990) 42
Ion motion in a small low energy cyclotron, Bertsche, K.J. A301 (1990) 171
Improved formulas for calculating cyclotron orbit properties, Gordon, M.M. and D.-O Jeon A301 (1990) 182
Acceptance diagram analysis of the performance of vertically curved neutron monochromators, Copley, J.R.D. A301 (1990) 191
A proton polarimeter for beam energies below 300 keV, Buchmann, L. A301 (1990) 383
Short pulse photoemission from a dispenser cathode, Bergeret, H., M. Boussoukaya, R. Chehab, B. Leblond and J. Le Duff A301 (1990) 389
Neutron intensity gains for converging guide systems, Mildner, D.F.R. A301 (1990) 395
A general analysis of thin wire pickups for high frequency beam position monitors, Barry, W. A301 (1990) 407
A semi-3D method of calculating the magnetic field in a conventional sector-focused cyclotron, Heikkinen, P. A301 (1990) 417
Gun optimization for an electron-beam ion source (*Letter to the Editor*), Tyrroff, H., H. Danared and L. Liljeby A301 (1990) 591
Ionization and charge dispersion in electron cyclotron resonance ion sources, Shirkov, G.D., C. Mühle, G. Musiol and G. Zschornack A302 (1991) 1
Deflection and focusing of charged particles by cavities of general shape, Hinderer, G. A302 (1991) 6
Nonlinear dynamics with sextupoles in low-emittance light source storage rings, Nagaoka, R., K. Yoshida and M. Hara A302 (1991) 9
Inductive method for critical current measurement of superconducting cables for high energy physics applications, Fabbricatore, P., R. Musenich and R. Parodi A302 (1991) 27
A dispersion-free trajectory correction technique for linear colliders, Raubenheimer, T.O. and R.D. Ruth ... A302 (1991) 191
Generation of extremely dense negative ion currents by means of a laser (*Letter to the Editor*), Korschinek, G. and T. Henkelmann A302 (1991) 376
Observation of high intensity negative ion pulses by laser impact (*Letter to the Editor*), Berkovits, D., E. Boaretto, G. Hollos, W. Kutschera, R. Naaman, M. Paul and Z. Vager A302 (1991) 379
Fast data acquisition system of a non-destructive profile monitor for a synchrotron beam by using a microchannel plate with multi-anodes, Kawakubo, T., T. Ishida, E. Kadokura, Y. Ajima and T. Adachi ... A302 (1991) 397

Proceedings of the 15th World Conference of the International Nuclear Target Development Society (Santa Fe, NM, USA, September 10–14, 1990)

Section I. Topics of general interest

Early history of Los Alamos with emphasis on the two Van de Graaff accelerators from the University of Wisconsin, McKibben, J.L. A303 (1991) 1
Status of the isotope enrichment program at Oak Ridge National Laboratory, Tracy, J.G. A303 (1991) 3
Influence of target properties on prompt in-beam electron spectra, Dionisio, J.S., Z. Méliani, C. Schück and Ch. Vieu A303 (1991) 9
Targets in the experiments at the KRI, Drapchinsky, L.V. and S.M. Soloviev A303 (1991) 19

0168-9002/92/$05.00 © 1992 – Elsevier Science Publishers B.V. All rights reserved

Targets and degraders for relativistic heavy ions at GSI, Folger, H., H. Geißel, W. Hartmann, J. Klemm, G. Münzenberg, D. Schardt, K.-H. Schmidt and W. Thalmeier A303 (1991) 24

Section II. Carbon stripper foils

Preparation of carbon micro-ribbon targets and open-edged stripper foils for the IUCF cooler ring, Lozowski, W.R. and J.D. Hudson A303 (1991) 34
Stripper foil development at the NSC target laboratory, Avasthi, D.K., Jaipal and S. Gargari A303 (1991) 43
Production of high-purity self-supporting carbon foils in a large thickness range, Richaud, J.P. A303 (1991) 46
Development of laser plasma ablation-deposition techniques for carbon stripper foils, Dollinger, G. and P. Maier-Komor A303 (1991) 50
Nitrided carbon foils as long-lived charge strippers, Sugai, I., M. Oyaizu, T. Hattori, K. Kawasaki, T. Yano, H. Muto, Y. Takahashi and K. Yamazaki A303 (1991) 59
Long-life carbon-fiber-supported carbon stripper foils, Borden, M.J., G.E. Adamson, R.N. Johnson and W.F. Nicaise A303 (1991) 63
Analysis and reduction of low-Z contaminants on thin carbon films, Weathers, D.L., J.L. Duggan, R.B. Escue and F.D. McDaniel A303 (1991) 69
Structure investigations of thin carbon foils, Dollinger, G., P. Maier-Komor and A. Mitwalsky A303 (1991) 79
Thickness calibration of carbon foils, Maier-Komor, P., G. Dollinger and E. Hammann A303 (1991) 88
Densities of carbon foils, Stoner Jr, J.O. A303 (1991) 94

Section III. Special preparation procedures

Preparation of actinide targets and sources using nonaqueous electrodeposition, Fowler, M.M., J.C. Gursky and J.B. Wilhelmy A303 (1991) 99
The preparation of osmium targets by electroplating, Cecchi, A. A303 (1991) 102
Cobalt-60 source on thin self-supporting carbon foil prepared by molecular plating, Wirth, H.L., W. Essig, S. Hinderer and J. Kayser A303 (1991) 106
Enriched ^{124}Te targets for production of ^{123}I and ^{124}I, Clem, R.G. and R.M. Lambrecht A303 (1991) 115
Aluminium–gold reference materials for the k_0-standardisation of neutron activation analysis, Ingelbrecht, C., F. Peetermans, F. De Corte, A. De Wispelaere, C. Vandecasteele, E. Courtijn and P. D'Hondt A303 (1991) 119
Problems related to the determination of mass densities of evaporated reference deposits, Tagziria, H., J. Pauwels, J. Verdonk, J. Van Gestel, R. Eykens, D.M. Gilliam, R.D. Scott, J. Byrne and P. Dawber A303 (1991) 123
The preparation and characterisation of ^{6}LiF and ^{10}B reference deposits for the measurement of the neutron lifetime, Pauwels, J., R. Eykens, A. Lamberty, J. Van Gestel, H. Tagziria, R.D. Scott, J. Byrne, P.G. Dawber and D.M. Gilliam A303 (1991) 133
The preparation of accelerator targets by evaporation of acetate–organic solutions in the presence of NH_3 gas, Cai Shan-Yu, A. Ghiorso and D.C. Hoffman A303 (1991) 141
The reduction of rare earth oxides to metal and their subsequent rolling, Pengo, R., P. Favaron, G. Manente, A. Cecchi and L. Pieraccini A303 (1991) 146
Preparation and characterization of ^{35}Cl and ^{36}Cl samples for (n, p) cross section measurements, Eykens, R., A. Goetz, A. Lamberty, J. Van Gestel, J. Pauwels, C. Wagemans, S. Druyts and P. D'Hondt A303 (1991) 152

Section IV. Vapor deposited targets

Nuclear target fabrication using a modified fine beam saddle-field ion source, Muggleton, A.H.F. A303 (1991) 157
Characteristics of various electron beam sources, Thomas, G.E., J.P. Greene, P. Maier-Komor and R.H. Leonard A303 (1991) 162
The production of molybdenum targets for heavy-ion experiments by electron beam evaporation, Greene, J.P. and G.E. Thomas A303 (1991) 165
Progress in target technology using a pulsed laser beam for physical vapor deposition, Maier-Komor, P. and G. Dollinger A303 (1991) 168
High vacuum sputter deposition of nuclear accelerator targets, Maier, H.J. A303 (1991) 172

Section V. Atypical targets and techniques

Radioactive targets for nuclear astrophysics research at LANSCE, Koehler, P.E., H.A. O'Brien and J.C. Gursky A303 (1991) 182
Coating techniques used in target fabrication, Gobby, P.L., B.L. Barthell, V.M. Gomez and J.E. Moore A303 (1991) 187
Preparation of a multi-anode electrode for an ionization chamber, Ernwein, R. and M.A. Saettel A303 (1991) 192
The boron filter for the ROSAT X-ray telescope, Stephan, K.-H., J.H.M.M. Schmitt, S.L. Snowden, H.J. Maier and D. Frischke A303 (1991) 196
Laser-induced target modification effects on pulsed laser depositions of Y–Ba–Cu–O superconducting thin films, Muenchausen, R.E., S.R. Foltyn, N.S. Nogar, R.C. Estler, E.J. Peterson and X.D. Wu A303 (1991) 204

Study of the electromagnetic fields in an electron RFQ structure, Picardi, L., P. Raimondi and C. Ronsivalle . A303 (1991) 209
A use of a thin foil target in a cooler ring experiment, Noda, K., A. Noda, I. Katayama and N. Sakamoto A303 (1991) 215
Operation of the LAMPF stopped muon channel for small gas targets, Holmes, R., D.-H. Kim, K.S. Kumar, P.A. Souder, D. Benton, G.D. Cates, N. Newbury and C. Pillai A303 (1991) 226
The polytron as a cw electron accelerator in the 10 GeV range, Herminghaus, H. A305 (1991) 1
A proposed new type of radially and azimuthally varying magnetic field in cyclotrons for enhanced focusing, Sarma, P.R. A305 (1991) 10
High field permanent sextupole magnets for Stern Gerlach separation in atomic beam sources, Schiemenz, P., A. Ross and G. Graw A305 (1991) 15
Taladon: a polarized and tagged gamma ray beam, Babusci, D., E. Cima, M. Iannarelli, E. Turri, F. Basti, I. Halpern, L. Casano, A. D'Angelo, D. Moricciani, P.G. Picozza, C. Schaerf and B. Girolami A305 (1991) 19
Beam–beam effects with large dispersion function at the interaction point, Gerasimov, A.L., D.N. Shatilov and A.A. Zholents A305 (1991) 25
Exploration axiale du plasma RCE d'une source d'ions multichargés CAPRICE, Delaunay, M., B. Jacquot et M. Pontonnier A305 (1991) 223
A beam counter for intense muon beams, Ricken, L. and T. Kozlowski A305 (1991) 232
Emittance of a nonlinear machine: the two-dimensional problem, Antillón, A. and B. Hoeneisen A305 (1991) 239
Transport matrices for nonlinear lattice functions, Antillón, A., E. Forest, B. Hoeneisen and F. Leyvraz A305 (1991) 247
The design and calibration of the AHEAD deuteron polarimeter for $120 < E_d < 250$ MeV, Cameron, J.M., B. Ni, L.E. Antonuk, E.B. Cairns, H.W. Fielding, L. Holm, R. Igarashi, C. Lapointe, W.J. McDonald, J. Pasos, N.L. Rodning, G. Roy, J. Soukup, W. Ziegler, J. Arvieux, J. Tinslay, J. Yonnet, B. Bonin, A. Boudard, M. Garçon, D. Bachelier and I. The A305 (1991) 257
Brightness enhanced intense slow positron beam produced using an electron linac, Ito, Y., M. Hirose, S. Takamura, O. Sueoka, I. Kanazawa, K. Mashiko, A. Ichimiya, Y. Murata, S. Okada, M. Hasegawa and T. Hyodo A305 (1991) 269
Snakes and spin rotators for high energy accelerators, Lee, S.Y. A306 (1991) 1
Particle amplitude growth due to single or repetitive resonance crossing, Mane, S.R. and W.T. Weng A306 (1991) 9
The superconducting accelerating cavities for the Tritron, Grundey, T., J. Labedzki, P. Schütz and U. Trinks . A306 (1991) 21
Longitudinal particle dynamics in the Tritron, Trinks, U. A306 (1991) 27
A sextupole magnet system for the production of intense polarized hydrogen atomic beams at low temperature, Singy, D., W. Grüebler, P.A. Schmelzbach, O. Huwyler and W.Z. Zhang A306 (1991) 36
Feasibility of a polarized deuteron beam in the AGS and RHIC, Lee, S.Y. and L.G. Ratner A306 (1991) 51
A method for radial extraction of ions from a PIG source using an asymmetrical Wien filter, Biri, S., S.L. Bogomolov and I. Koos A306 (1991) 56
A new technique of correcting emittance dilutions in linear colliders, Raubenheimer, T.O. A306 (1991) 61
Precise determination of the degree of polarization of a cold neutron beam, Nastoll, H., K. Schreckenbach, C. Baglin, A. Bussière, J.P. Guillaud, R. Kossakowski and P. Liaud A306 (1991) 65
A deuteron polarimeter for polarized beams of relativistic energies, Ableev, V.G., S. Dzhemukhadze, V.P. Ershov, V.V. Fimushkin, B. Kühn, M.V. Kulikov, A.A. Nomofilov, L. Penchev, Yu.K. Pilipenko, N.M. Piskunov, V.I. Sharov, V.B. Shutov, I.M. Sitnik, E.A. Strokovsky, L.N. Strunov and S.A. Zaporozhets, B. Naumann, L. Naumann and S. Tesch A306 (1991) 73
A fast small-angle rejection system for focal plane polarimeters, Lourie, R.W., S.P. Van Verst, J.H. Mitchell, D.H. Barkhuff and T.P. Welch A306 (1991) 83
Beam profile monitors for a tagged photon beam facility, Arends, J., M. Breuer, H.D. Dahmen, P. Detemple, W. Schneider, D. Urban and B. Zucht A306 (1991) 89
A beam size monitor for the Final Focus Test Beam, Buon, J., F. Couchot, J. Jeanjean, F. Le Diberder, V. Lepeltier, H. Nguyen Ngoc, J. Perez-y-Jorba, P. Puzo and P. Chen A306 (1991) 93
Dynamics of skew beams and the projectional emittance, Chan, C.F., W.S. Cooper, J.W. Kwan and W.F. Steele A306 (1991) 112
The magnetic channel designed for separating beams of radioactive nuclei COMBAS, Artukh, A.G., Y.L. Obukhov, V.A. Stchepunov, M.G. Nagayenko, Y.P. Severgin, V.A. Titov, V.S. Belavenko and I.N. Vishnievski A306 (1991) 123
A dc optically pumped, polarized H^- source, Buchmann, L., K. Jayamanna, C.D.P. Levy, M. McDonald, R. Ruegg, P.W. Schmor, A. Belov, V.G. Polushkin and A.N. Zelenskii A306 (1991) 413
How to decrease the rise time of a current from a thyratron housing, Kawakubo, T., H. Someya, S. Tazawa, S. Murasugi and Y. Arakida A306 (1991) 426
Calibration of the polarization of a frozen spin target, Abegg, R., M. Ahmad, D. Bandyopadhyay, J. Birchall, K. Chantziantoniou, C.A. Davis, N.E. Davison, P.P.J. Delheij, P.W. Green, L.G. Greeniaus, D.C. Healey, C. Lapointe, W.J. McDonald, C.A. Miller, G.A. Moss, S.A. Page, W.D. Ramsay, N.L. Rodning, G. Roy, W.T.H. van Oers, G.D. Wait, J.W. Watson and Y. Ye A306 (1991) 432

High order calculation of the multiple content of three dimensional electrostatic geometries, Berz, M., W.M. Fawley and K. Hahn A307 (1991) 1
Electron cooling experiments at INS, Tanabe, T., K. Noda, T. Honma, M. Kodaira, K. Chida, T. Watanabe, A. Noda, S. Watanabe, A. Mizobuchi, M. Yoshizawa, T. Katayama, H. Muto and A. Ando A307 (1991) 7
A beam intensity profile monitor based on secondary electron emission, Berdoz, A.R., J. Birchall, J.R. Campbell, C.A. Davis, N.E. Davison, P.W. Green, M. Knoll, E. Korkmaz, R.E. Mischke, D.R. Mosscrop, S.A. Page, W.D. Ramsay, G. Roy, A.M. Sekulovich, J. Soukup, G.M. Stinson, J. Stewart and W.T.H. van Oers A307 (1991) 26
On Rose's expression of magnetic vector potential and variational function for a charged particle optical system, Li, Y. A307 (1991) 151
Ion related problems for the XLS ring, Bozoki, E.S. and H. Halama A307 (1991) 156
Tuning and measurement of the 35 MeV Beijing Proton Linac, Huashun, Z., W. Shuhong and Z. Qingyi A307 (1991) 167
Some aspects of the longitudinal motion of ions in electron storage rings, Sagan, D. A307 (1991) 171
Method of the measurement of a supersmall beam size in electron–positron colliders by Compton scattering, Kezerashvili, G.Ya. and A.N. Skrinsky A307 (1991) 179
An energy-resolution-function measurement system for charged-particle beams, Mooney, T.M., R.E. Fauber, T.B. Clegg and E.J. Ludwig A307 (1991) 185
Beam emittance measurement by the pepper-pot method, Wang, J.G., D.X. Wang and M. Reiser A307 (1991) 190
Determination of beam position from induced electric signals, Bozoki, E.S. A307 (1991) 195
A new target design and capture strategy for high-yield positron production in electron linear colliders, James, M., R. Donahue, R. Miller and W.R. Nelson A307 (1991) 207
A new type of liquid-^{3}He target system using small mechanical refrigerators, Kato, S., K. Kobayashi, K. Maruyama, H. Okuno, O. Konno, T. Suda, T. Maki, H. Asami and T. Koizumi A307 (1991) 213
Internal targets in recirculating beams: luminosity gain and beam halo, Tschalär, C. A308 (1991) 471
Extraction of the 70 GeV proton beam from the IHEP accelerator towards beam line 2(14) with a bent single crystal, Asseev, A.A., M.D. Bavizhev, E.A. Ludmirsky, V.A. Maisheev and Yu.S. Fedotov A309 (1991) 1
Analytical formula for the coupling coefficient β of a cavity–waveguide coupling system, Gao, J. A309 (1991) 5
Diameters of a 30 K polarized atomic beam, Friedrich, L. and E. Huttel A309 (1991) 11
On the feasibility of passive tuning of the magnetic field in high-energy fixed-frequency superconducting cyclotrons, Ostojic, R. A309 (1991) 17
Experimental study on the production of high density electron bunches from a GaAs photocathode, Calabrese, R., J.M. Gong, V. Guidi, F. Masoli and L. Tecchio A309 (1991) 21
Positron recycling in high energy linear colliders, Rossbach, J. A309 (1991) 25
A high-current low-emittance dc ECR proton source, Taylor, T. and J.S.C. Wills A309 (1991) 37
Space-charge effects in low-energy proton synchrotrons, Machida, S. A309 (1991) 43
A simple structure for reducing gas-flow into a PIG discharge column (*Letter to the Editor*), Sato, Y., H. Ogawa, S. Yamada and T. Yamada A309 (1991) 348
A perturbation method for HOM tuning in a rf cavity, Bartalucci, S., R. Boni, A. Gallo, M. Serio, R. Scalia, B. Spataro, G. Vignola and L. Palumbo A309 (1991) 355
Lens first-order transfer matrices incorporating third-order aberrations (*Letter to the Editor*), Page, S.C. and F.H. Read A309 (1991) 594
A tagging system for linearly polarized photons, Krause, K.-H., J. Sobolewski, D. Hauff, J.M. Henneberg, N. Wieloch-Laufenberg, J. Ahrens, H. Gimm, A. Zieger, B. Ziegler and P. Rullhusen A310 (1991) 577
Optimization of the performance of rf transitions for the TUNL atomic beam polarized ion source (*Letter to the Editor*), Crosson, E.R., T.B. Clegg, H.J. Karwowski and S.K. Lemieux A310 (1991) 703

Instruments and Methods for High Energy Physics

The E760 lead-glass central calorimeter: design and initial test results, Bartoszek, L., V. Bharadwaj, M.D. Church, A.A. Hahn, J. Peoples Jr, S.H. Pordes, P.A. Rapidis, S.J. Werkema, D. Agahi, D.R. Broemmelsiek, J.E. Fast, M. Gee, K.E. Gollwitzer, M.A. Mandelkern, J.L. Marques, J. Schultz, M.F. Weber, C.M. Ginsburg, M. Masuzawa, R.E. Ray, J.L. Rosen, S. Trockenheim, J.L. Zhao, T.A. Armstrong, G.E. Hufford, R.A. Lewis, A.M. Majewska, J.D. Reid, G.A. Smith, M.A. Hasan, C. Biino and S. Palestini A301 (1990) 47
Search for new room temperature liquids for use in ionization chambers, Geer, S., R.A. Holroyd and F. Ptohos A301 (1990) 61
Determination of the primary vertex position in the NA36 experiment, Andersen, E., P.D. Barnes, B. Castano, M. Cherney, M. Cohler, B. de la Cruz, G.E. Diebold, B. Dulny, C. Fernandez, G. Franklin, R. Frühwirth, C. Garabatos, J.A. Garzon, W.M. Geist, A. Gomez, D. Greiner, C. Gruhn, M. Hafidouni, J. Hrubec, P.G.Jones, E. Judd, J.P.M. Kuipers, P. Ladron de Guevara, M. Ladrem, D. Liko, S. Lopez-Ponte, G. Lovhoiden, J. MacNaughton, A. Michalon, M.E. Michalon-Mentzer, J. Mosquera, Z. Natkaniec, J.M.

Nelson, G. Neuhofer, C. Perez de los Heros, M. Plo, B. Powell, B. Quinn, A. Ramil, M. Regler, H. Rohringer, I. Sakrejda, R. Schumacher, D. Stampfer, T. Thorsteinsen, J. Traxler, A. Yanez, P. Yepes and R. Zybert A301 (1990) 69
Experimental determination of ionization cluster size distributions in counting gases, Fischle, H., J. Heintze and B. Schmidt A301 (1990) 202
Leakage current, annealing, and deep defect production studies in neutron irradiated n-type Si-detectors, Borchi, E., R. Macii, C. Leroy, C. Manoukian-Bertrand, C. Furetta, R. Paludetto, S. Pensotti, P.G. Rancoita, M. Rattaggi, A. Seidman and L. Vismara A301 (1990) 215
Minimum ionizing particle detection using amorphous silicon diodes, Xi, J., R.E. Hollingsworth, R.H. Buitrago, D. Oakley, J.P. Cumalat, U. Nauenberg, J.A. McNeil, D.F. Anderson and V. Perez-Mendez . . . A301 (1990) 219
Timing properties of long scintillation counters based on scintillating fibers, Kuhlen, M., M. Moszynski, R. Stroynowski, E. Wicklund and B. Milliken A301 (1990) 223
Temperature treatment of plastic scintillator affects radiation hardness (*Letter to the Editor*), Johnson, K.F. and H.L. Whitaker A301 (1990) 372
A fast charge integrating ADC for the CPLEAR experiment at CERN, Kręciejewski, M., A. Chłopik, M. Moszyński, J. Szlachciak and A. Kerek, CPLEAR Collaboration A301 (1990) 424
Radiation damage and recovery in the light emittance efficiency and the attenuation length of barium fluoride scintillator, Murakami, A., H. Asakura and H. Yoshinaka A301 (1990) 435
Performance of a semi-octagonal-shaped uranium/tetramethylpentane calorimeter, Bacci, C., A. Bezaguet, D. Bloess, A. Caner, F. Cavanna, F.J. Diez-Hedo, D. Drijard, L. Dumps, H. Evans, A. Ferrando, A. Givernaud, A. Gonidec, M.I. Josa, M. Krammer, M.A. Marquina, G. Maurin, K. Morgan, R.C. Muñoz, L. Naumann, P. Nedelec, E.Petrolo, A. Placci, L. Pontecorvo, E. Radermacher, D. Robinson, T. Rodrigo, C. Rubbia, J.M. Salicio, D. Schinzel, C. Seez, C. Stubenrauch, H. Teykal, E. Torrente-Lujan, A. Tusi, O. Ullaland, S. Veneziano, T.S. Virdee and V. Vuillemin, UA1 Collaboration A301 (1990) 445
Field shaping by iron for muon measurement at hadron colliders, Dolgosheina, E., T. Taylor and W.J. Willis . A301 (1990) 451
Flow-rate independent gas-mixing system for drift chambers, using solenoid valves, Sugano, K. A301 (1990) 454
Electron–pion discrimination with a scintillating fiber calorimeter, Acosta, D., S. Buontempo, L. Calõba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, M. Fraternali, G. Fumagalli, V.G. Goggi, F.G. Hartjes, W. Hao, Th.H. Henkes, A. Henriques, L. Linssen, M. Livan, A. Maio, L. Mapelli, K.H. Meier, R.M. Mondardini, B. Ong, H.P. Paar, F. Pastore, M. Pereira, L. Poggioli, G. Polesello, C.V. Scheel, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thome, V. Vercesi, Y. Wang, R. Wigmans and C. Xu A302 (1991) 36
Gamma-rays and $e^{\pm}$ streaming backward from total-absorption EM calorimeters, Kobayashi, M., P. Carlson and S. Berglund A302 (1991) 47
Hadron calorimetry in the L3 detector, Adriani, O., A. Arefiev, Q. An, T. Azemoon, T. Aziz, R.C. Ball, S. Banerjee, P. Blomeke, M. Capell, X. Cai, C. Chen, G.M. Chen, H.S. Chen, M.L. Chen, S.R. Chendvankar, C. Civinini, X. Cui, R. D'Alessandro, Yu. Galaktionov, E. Gallo, S.N. Ganguli, S. Goldfarb, Z.F. Gong, A. Gordeev, Yu. Gorodkov, A. Gurtu, H. Haan, H. Hofer, M.M. Ilyas, L.W. Jones, W. Karpinski, Yu. Kamyshkov, R. Khan, A. Klimentov, O. Kornadt, V. Koutsenko, V. Kumar, A. Kunin, P. Lecomte, P. LeCoultre, J. Lettry, H.T. Li, X.G. Li, Y.B. Lin, Y.S. Lu, K. Lubelsmeyer, A. Malinin, P.K. Malhotra, A. Marchionni, K. Mazumdar, M. Meschini, G.B. Mills, V. Morgunov, L. Niessen, D. Pandoulas, Y.J. Pei, M. Pieri, V. Plyaskin, V. Pojidaev, K. Qureshi, R. Raghavan, M. Rohner, B.P. Roe, S. Saran, A. Savin, S. Shevchenko, V. Shevchenko, A. Schultz von Dratzig, K. Shmakov, E. Shoumilov, V. Shoutko, G. Schwering, R. Siedling, B. Spiess, K. Sudhakar, X.W. Tang, E. Tarkovsky, S.C. Tonwar, K.L. Tung, J. Ulbricht, I. Vetlitsky, I. Vorobiev, M. Wadhawa, W. Wallraff, Y.F. Wang, R.J. Wu, S.W. Wu, Y.G. Wu, J.F. Zhou and A. Zichichi A302 (1991) 53
A Monte Carlo procedure for Bethe–Heitler production of dileptons with high invariant mass, Yoshida, R. . . A302 (1991) 63
A study on radiation damage in doped BGO crystals, Zhu, R.Y., H. Stone, H. Newman, T.Q. Zhou, H.R. Tan and C.F. He A302 (1991) 69
Luminosity lifetime at an asymmetric e^+e^- collider, Porter, F.C. A302 (1991) 209
Primary vertex finding in proton–antiproton events with a neural network simulation, Lindsey, C.S. and B. Denby A302 (1991) 217
Simulation of b-jet identification in a non-magnetic detector, Ellison, J., A. Kernan and D. Smith A302 (1991) 227
Experimental study of the single photoelectron response of the DELPHI Barrel RICH MWPCs, Dracos, M. and D. Loukas A302 (1991) 241
Measuring muon momenta with the CCFR neutrino detector, King, B.J., C.G. Arroyo, K.T. Bachmann, R.E. Blair, C. Foudas, W.C. Lefmann, W.C. Leung, S.R. Mishra, E. Oltman, P.Z. Quintas, S.A. Rabinowitz, F.J. Sciulli, W.G. Seligman, M.H. Shaevitz, F.S. Merritt, M.J. Oreglia, B.A. Schumm, R.H. Bernstein, F. Borcherding, H.E. Fisk, M.J. Lamm, W. Marsh, K.W.B. Merritt, H. Schellman, D.D. Yovanovitch, A. Bodek, H.S. Budd, P. de Barbaro, W.K. Sakumoto, P.H. Sandler and W.H. Smith A302 (1991) 254

CLEOII trigger system, Bebek, C., G. Crawford, J. Dobbins, R.S. Galik, J. Kandaswamy, M. Pisharody, M. Selen, M. Worris, K. Kinoshita, P. Mauskopf, Y. Zhu, J. Dominick, R.L. McIlwain, C.R. Ng, E.I. Shibata and W.-M. Yao A302 (1991) 261
Manufacture of readout boards for a liquid argon calorimeter, Antoš, J., J. Bán, J. Ferencei, P. Muríň, J. Špalek, P. Štefan, J. Cvach, I. Herynek, J. Hladký, V. Kohl, V. Šimák, P. Staroba, J. Strachota, P. Závada, Š. Valkár, A. Valkárová and J. Žáček A302 (1991) 277
Monte Carlo studies of response of a liquid argon calorimeter with lead absorber, Pun, C. and T. Ferbel A302 (1991) 285
Sampling calorimeter for high energy heavy particles filled with allene-doped liquid argon, Doke, T., H.J. Crawford, J.M. Engelage, I. Flores, L. Greiner, T. Kashiwagi, J. Kikuchi, K. Masuda, K. Nishijima, E. Shibamura and T.J.M. Symons A302 (1991) 290
Test of a raster Cherenkov photodetector in a beam of 3.6 GeV/n relativistic carbon nuclei, Zrelov, V.P., J. Ružička and V.M. Sheshunov A302 (1991) 301
Experimental determination of ν background expected in the Fréjus nucleon decay detector, Fréjus Collaboration, Ch. Berger, M. Fröhlich, H. Mönch, R. Nisius, F. Raupach, P. Schleper, Y. Benadjal, D. Blum, C. Bourdarios, B. Dudelzak, P. Eschstruth, S. Jullian, D. Lalanne, F. Laplanche, C. Longuemare, C. Paulot, O. Pedereau, Ph. Roy, G. Szklarz, L. Behr, B. Degrange, U. Nguyen-Khac, S. Tisserant, C. Arpesella, P. Bareyre, R. Barloutaud, A. Borg, G. Chardin, J. Ernwein, J.F. Glicenstein, W. Kolton, L. Mosca, L. Moscoso, J. Becker, K.H. Becker, H.J. Daum, B. Jacobi, B. Kuznik, H. Meyer, M. Schubnell and Y. Wei . A302 (1991) 406
A readout system for plastic scintillating fibers, Akbari, H., J. Bao, C-Y. Chien, H. Fenker, R. Fitzgerald, P. Fisher, M. Glaubman, A. Grimes, H. Hofer, I. Horvath, D. Kaplan, K. Lanius, I. Leedom, M. Macdermott, J. Mnich, D. Newman, J. Orndorff, A. Pevsner, S. Reucroft, J. Rose, J. Spangler, C. Spartiotis, F. Tonisch, G. Viertel, S. Waldmeier and L. Zehnder A302 (1991) 415
Effects of dead material to the electromagnetic calorimeter and energy resolution recovery with "massless gap", Hirayama, H. A302 (1991) 427
Detector for magnetic monopoles at OPAL, Pinfold, J.L., P.B. Price, P. Le Du, K. Kinoshita, H. Gao, R. Humbert, G. Rieth, J. Schwarz, T. Hilse, B. Lorazo and M. Regimbald A302 (1991) 434
Cerium fluoride, a highly radiation-resistive scintillator, Kobayashi, M., M. Ishii, E.A. Krivandina, M.M. Litvinov, A.I. Peresypkin, Yu.D. Prokoshkin, V.I. Rykalin, B.P. Sobolev, K. Takamatsu and V.G. Vasil'chenko A302 (1991) 443
A CsI–TMAE photocathode with low-pressure readout for RICH, Hoeneisen, B., D.F. Anderson and S. Kwan A302 (1991) 447
Characterization by γ-ray diffractometry of the mosaic structure of $Bi_4Ge_3O_{12}$, $Bi_{12}GeO_{20}$ and BaF_2 crystals, Allegretti, F., R. Caciuffo, F. de Notaristefani, F. Ferroni, O. Francescangeli, G. Majni, M. Mattioli and D. Rinaldi A302 (1991) 455
The DELPHI detector at LEP, DELPHI Collaboration A303 (1991) 233
Design and performance of a straw tube drift chamber, Oh, S.H., D.K. Wesson, J. Cooke, A.T. Goshaw, W.J. Robertson and W.D. Walker A303 (1991) 277
A model for the performance of silicon microstrip detectors, Sailor, W.C., H.-J. Ziock, W.W. Kinnison and K. Holzscheiter A303 (1991) 285
A fast MWPC with cathode strips and utilizing CF_4–isobutane, Armijo, V., K. Black, R.D. Bolton, S. Carius, M.D. Cooper, C. Espinoza, G. Hart, G.E. Hogan, G. Ludwig, R.E. Mischke, L. Piilonen, S. Stanislaus, J. Sandoval, D.A. Whitehouse, C. Wilkinson and C.C.H. Jui A303 (1991) 298
The ZEUS vertex detector: design and prototype, Alvisi, C., G. Anzivino, F. Arzarello, G. Barbagli, G. Bari, M. Basile, L. Bellagamba, D. Boscherini, G. Bruni, P. Bruni, U. Camerini, G. Cara Romeo, G. Castellini, M. Chiarini, L. Cifarelli, F. Cindolo, F. Ciralli, A. Contin, M. Costa, S. D'Auria, C. Del Papa, S. De Pasquale, F. Fiori, A. Forte, F. Frasconi, P. Giusti, G. Iacobucci, G. Laurenti, B. Lisowski, G. Maccarrone, A. Margotti, T. Massam, R. Nania, V. O'Shea, F. Palmonari, P. Pelfer, R. Pilastrini, S. Qian, G. Sartorelli, M. Schioppa, G. Susinno, R. Timellini and A. Zichichi A305 (1991) 30
Performance of the capacitive displacement measuring system of the Mark II detector at the SLC, Breakstone, A. A305 (1991) 39
The photomultiplier gain monitoring system for the E687 electromagnetic calorimeter at Fermilab, Bianco, S., P. Cantoni, A. Cotta-Ramusino, L. Daniello, M. Enorini, F.L. Fabbri, P.L. Frabetti, M. Giardoni, V. Giordano, S. Meneghini, G. Molinari, L. Passamonti, L. Perasso, R. Pilastrini, S.P. Ratti, V. Russo, A. Sala-Grabar, G. Sola, A. Spallone, P. Trespi, P. Vitulo and A. Zallo A305 (1991) 48
Localizing particles showering in a Spaghetti Calorimeter, Acosta, D., S. Buontempo, L. Calôba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, G. Fumagalli, G. Goggi, W. Hao, F.G. Hartjes, A. Henriques, L. Linssen, M. Livan, A. Maio, L. Mapelli, M.R. Mondardini, B. Ong, H.P. Paar, F. Pastore, M. Pereira, L. Poggioli, F. Riccardi, C.V. Scheel, J. Schmitz, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thome, V. Vercesi, Y. Wang, R. Wigmans and C. Xu A305 (1991) 55
Vectorization of the track reconstruction program for the VENUS central drift chamber at TRISTAN, Oyama, T., T. Hirose, K. Amako, J. Kanzaki and T. Tsuboyama A305 (1991) 71
Conductive PVC for drift tubes, Bartl, W. A305 (1991) 82

Feedback and breakdown in parallel-plate chambers, Fonte, P., V. Peskov and F. Sauli A305 (1991) 91
The OPAL detector at LEP, OPAL Collaboration A305 (1991) 275
A silicon–tungsten electromagnetic calorimeter for LEP, Lund–Milano–Torino–Trieste Collaboration, S. Almehed, F. Bianchi, J. Bjarne, W. Bonivento, H. Carling, R. Cirio, M.P. Clara, N. Demaria, A. De Min, P. Folegati, D. Gamba, A. Hakansson, G. Jarlskog, G. Kidrich, E. Menichetti, U. Mjornmark, P.Negri, P. Poropat, G. Rinaudo, A. Romero, M. Sessa, P.P. Trapani and E. Vallazza A305 (1991) 320
Performance of a uranium/tetramethylpentane calorimeter backed by an iron/scintillator calorimeter, UA1 Collaboration, R. Apsimon, C. Bacci, G. Bauer, A. Bezaguet, D. Bloess, J.M. Bodenes, R. Bonino, C. Buchanan, G. Busetto, A. Caner, L. Casoli, H. Castilla-Valdez, F. Cavanna, P. Cennini, S. Centro, F. Ceradini, R. Conte, M. Della Negra,A. DiCiaccio, M. De Giorgi, F.J. Diez-Hedo, D. Drijard, L. Dumps, H. Evans, A. Ferrando, T. Fuess, A. Givernaud, A. Gonidec, J. Gronberg, M.I. Josa, W. Kienzle, M. Krammer, F. Lacava, M. Lindgren, D. Marchand, R. Martinelli, G. Maurin, A. Meneguzzo, M. Mohammadi, K. Morgan, R.C. Muñoz, L. Naumann, P. Nedelec, S. Otwinowski, E. Petrolo, G. Piano-Mortari, A. Placci, L. Pontecorvo, E. Radermacher, J.P. Revol, D. Robinson, T. Rodrigo, C. Rubbia, D. Schinzel, W.F. Schmidt, C. Seez, W. Seidl, D. Stork, C. Stubenrauch, K. Sumorok, Q.H. Tan, S. Tether, H. Teykal, E. Torrente-Lujan, O. Ullaland, M.W. van de Guchte, S. Veneziano, T.S. Virdee, V. Vuillemin, G. Walzel, I. Wingerter, X. Wu and P.L. Zotto A305 (1991) 331
The results of mass testing of the plastic streamer tubes for the DELPHI hadron calorimeter, Alekseev, G.D., Yu.Ye. Bonushkin, S. Czellar, B. Fialovszki, B.A. Khomenko, N.N. Khovansky, A.V. Korytov, P.A. Kulinich, M. Lokajiček, G.D. Mitselmakher, J. Patočka, V.D. Ryabtsov, J. Řidký, Yu.V. Sedykh, V.V. Tokmenin, R. Toledo and E. Tarjan A305 (1991) 344
Optical readout components for the ZEUS barrel calorimeter, Bylsma, B.G., L.S. Durkin, J. Fitch, C. Li, T.Y. Ling, K. Mclean, S.K. Park, T.A. Romanowski and R. Seidlein A305 (1991) 354
Light guides for the ZEUS forward and rear calorimeters, Hartmann, J., H.-L. Schneider, G. Geitz, E. Hilger, G. Jahnen, M. Krämer, C. Kuss and H. Reike A305 (1991) 366
The electronic response of 2,2,4,4 tetramethylpentane to minimum ionizing particles, Astbury, A., R.K. Keeler, Y. Li, P.R. Poffenberger and L.P. Robertson A305 (1991) 376
Development of tracking detectors based on capillaries with liquid scintillator, Golovkin, S.V., A.M. Gorin, A.V. Kulichenko, A.E. Kushnirenko, A.I. Peresypkin, A.I. Pyshchev, V.I. Rykalin and A.A. Zaichenko ... A305 (1991) 385
Simulation of particle interactions in BGO, Mazzaschi, L., P. Levi Sandri, A. Zucchiatti, M. Anghinolfi, D. Babusci, N. Bianchi, P. Corvisiero, A. D'Angelo, E. De Sanctis, G. Gervino, B. Girolami, V. Lucherini, V. Mokeev, V. Muccifora, P. Picozza, E. Polli, A.R. Reolon, G. Ricco, M. Ripani, P. Rossi, M. Sanzone, C. Schaerf and M. Taiuti A305 (1991) 391
A microstrip vertex detector to identify heavy flavour decays, Bellini, G., G. Bacchiocchi, P. D'Angelo, W.R. Cavaletti, M. Di Corato, M. Giammarchi, S. Grabar, A. Igiuni, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, S. Sala and M. Vittone A305 (1991) 395
Transmittance and radiation resistivity of optical glues, Kobayashi, M., S. Ishimoto, S. Sugimoto and S. Kobayashi A305 (1991) 401
An engineering design study of a hermetic liquid argon calorimeter for the SSC, Adams, T., N.J. DiGiacomo, B. Easom, H. Gordon, G. Guenterberg, K. Killian, P. Kroon, M. Lajczok, M. Marx, L. Mason, J. Pohlen, R. Watt and T. Wright A306 (1991) 128
A beam test on a fast EM-calorimeter of gadolinium silicate, GSO(Ce), Kobayashi, M., K. Takamatsu, S. Ide, K. Mori, S. Sugimoto, H. Takaki, M. Yuasa and M. Ishii A306 (1991) 139
Precision calibration of electromagnetic calorimeters with a radio-frequency quadrupole accelerator, Zhu, R.-Y. A306 (1991) 145
First-level charged particle trigger for the L3 detector, Béné, P., M. Bourquin, J.H. Field, G. Forconi, A. Léger, J. Perrier, N. Produit and J-P. Richeux A306 (1991) 150
Performances of a resistive plate counter at high ionization rates, Iori, M. and F. Massa A306 (1991) 159
Liquid scintillator filled capillary arrays for particle tracking, Bähr, J., E. Birckner, A. Capone, D. DePedis, W. Flegel, B. Friend, M. Gruwe, K. Hiller, P. Lendermann, C. Mommaert, R. Nahnhauer, E. Pesen, G. Stefanini, G. Wilquet, K. Winter and V. Zacek A306 (1991) 169
RICH-detector using a wire chamber, operating in a self-quenching streamer mode, Buzulutskov, A.F., V.Yu. Glebov, Yu.P. Korneev, L.K. Turnchanovich and V.G. Vasil'chenko A306 (1991) 177
Detection of strongly ionizing particles with a hydrogenated amorphous silicon detector, Bacci, C., F. Evangelisti, P. Fiorini, C. Furetta, F. Meddi, A. Mittiga and M. Sebastiani A306 (1991) 182
Performance of the UA6 large-area silicon drift chamber prototype, Vacchi, A., A. Castoldi, S. Chinnici, E. Gatti, A. Longoni, F. Palma, M. Sampietro, P. Rehak and J. Kemmer A306 (1991) 187
Calibration setup for drift chamber gases, Becker, U.J., Y.H. Chang, J.F. Donahue, M.E. Sarakinos, G.E. Sasser and B.R. Smith A306 (1991) 194
On using CF_4 as working gas for drift tubes, Denisov, D.S. A306 (1991) 200

A measurement of the refractive index of sodium fluoride in the far ultraviolet, Hempstead, M., J. Chauveau, G. Comby, J. Séguinot and T. Ypsilantis A306 (1991) 207
Semiempirical law of the non-proportionality of proportional chambers, Tang Xiaowei A306 (1991) 212
Effects of nitrogen contamination on the operation of limited streamer tubes (*Letter to the Editor*), Lau, K., J. Pyrlik, P. Roumeliotis and R. Weinstein A306 (1991) 397
A trigger for beauty, Charpak, G., Y. Giomataris and L. Lederman A306 (1991) 439
Performance of the ALEPH Time Projection Chamber, Atwood, W.B., T. Barczewski, L.A.T. Bauerdick, L. Bellantoni, E. Blucher, W. Blum, J. Boudreau, O. Boyle, D. Cinabro, J. Conway, G. Cowan, D.F. Cowen, I. Efthymiopoulos, P. Faure, Z. Feng, F. Fidecaro, B. Gobbo, A.W. Halley, S. Haywood, A. Jahn, R.C. Jared, R.P. Johnson, M. Kasemann, K. Kleinknecht, B. Leclaire, I. Lehraus, B. Lofstedt, T. Lohse, D. Lueke, A. Lusiani, P.S. Marrocchesi, J. May, T.C. Meyer, F. Morsani, A. Minten, J. Pater, D. Pollmann, M. Price, R. Richter, W. Richter, S. Roehn, L. Rolandi, A. Roth, H. Rotscheidt, D. Schlatter, M. Schmelling, H. Schmidt, J. Schroeder, R. Settles, F. Steeg, G. Stefanini, U. Stierlin, M. Takashima, W. Tejessy, I. Ten Have, J. Thomas, A. Vayaki, J. Wear, W. Wiedenmann, W. Witzeling and S.L. Wu A306 (1991) 446
Tagging the decays of the Z^0 boson into b quark pairs with a neural network classifier, Bortolotto, C., A. De Angelis and L. Lanceri A306 (1991) 459
Fast measurement of luminosity at LEP by detecting the single bremsstrahlung photons, Bini, C., G. De Zorzi, G. Diambrini Palazzi, G. Di Cosimo, A. Di Domenico, P. Gauzzi and D. Zanello A306 (1991) 467
The optimization of the electrostatic field inside the ZEUS forward drift chambers: calculations and measurements, Dobberstein, M.P., F. Krawczyk and M. Schäfer-Jotter A306 (1991) 474
Fast simulation of electromagnetic showers in the ZEUS calorimeter, Del Peso, J. and E. Ros A306 (1991) 485
Development and characterization of new scintillation materials for fiber tracking and calorimetry, Bross, A.D., A. Pla-Dalmau, B. Baumbaugh, J. Godfrey, J. Jaques, J. Marchant, J. Piekarz and R. Ruchti A307 (1991) 35
Particle identification by Cherenkov ring imaging using a neural network approach, Francke, T., T. Lindblad, Å. Eide, F. Piuz, D. Williams, P. Martinengo, R. Ribeiro and M. Suffert A307 (1991) 47
The AMY inner tracking chamber, Frautschi, M., D.R. Johnson, H. Kagan, R. Kass, C.G. Trahern, K. Maeshima, R.L. Malchow, K. Sparks and M.C.S. Williams A307 (1991) 52
Investigation of operation of a parallel-plate avalanche chamber with a CsI photocathode under high gain conditions, Charpak, G., P. Fonte, V. Peskov, F. Sauli, D. Scigocki and D. Stuart A307 (1991) 63
The honeycomb strip chamber: the application in LHC/SSC experiments and the test results of a prototype, Van der Graaf, H., J. Buskens, G. Faber, A. König, P. Rewiersma and T. Wijnen A307 (1991) 220
Performance of a fast, highly segmented electromagnetic calorimeter, Badgett, W., R. Ball, Y. Cha, J. Chapman, R.A. Dunn, R. Gustafson, M. Krasberg and R. Thun A307 (1991) 231
A test of large BaF_2 crystals as an electromagnetic calorimeter, Graham, G. and H. Yamamoto A307 (1991) 240
Guidelines for a supercollider experiment: the magnetic system, Spillantini, P. and Y.F. Wang A307 (1991) 247
A trigger for the Fermilab E760 lead-glass calorimeter, Ray, R., J.L. Rosen, M. Masuzawa and J. Zhao A307 (1991) 254
Observation of ring-imaging Cherenkov photons with an image intensifier, Sugitate, T., A. Sakaguchi, S. Endo, H. Ifuku, S. Esumi, F. Nishiyama, H. Hamagaki, M. Suzuki, S. Suzuki and K. Itoh A307 (1991) 265
Fast particle identification based on the relativistic increase of the threshold efficiency in multilayer proportional detectors, Grishin, V.M., V.K. Ermilova and S.K. Kotelnikov A307 (1991) 273
New methods for constructing multiwire chambers, Kalmar, H., A.G. Ketikjan, E.V. Komissarov, V.S. Kurbatov, V.Z. Serdiuk, V.V. Sidorkin, A.V. Voskanjan and B.G. Zalikhanov A307 (1991) 279
Results from beam tests of a 2.4 m straw chamber, Cizeron, R., D. Fournier, J.M. Noppe, O. Perderau and A.C. Schaffer A307 (1991) 286
Design and operation of large straw-tube drift chamber planes, Bromberg, C., D. Brown, J. Huston, A. Maul, R. Miller, A. Nguyen, L. Sorrel, C. Yosef, S. Mani, B.C. Choudhary, V. Kapoor, R. Shivpuri, W. Baker, W. DeSoi, C. Johnstone, I. Kourbanis, P. Lukens, D. Skow, G.-H. Wu, G. Alverson, P. Chang, W. Dlugosz, W.Faissler, D. Garelick, M. Glaubman, C. Lirakis, E. Pothier, T. Yasuda, P. Gutierrez, K. Hartman, B.Y. Oh, W. Toothacker, J. Whitmore, S.R. Blusk, W.H. Chung, E. Engels Jr, P.F. Shepard, D.D.S. Weerasundara, L. DeBarbaro, J. Dunlea, G. Fanourakis, T. Ferbel, G. Ginther, F. Lobkowicz, J. Mansour, E. Prebys, R. Roser, P. Slattery, N. Varelas and M. Zielinski A307 (1991) 292
Etching of anode wire deposits with CF_4/isobutane (80:20) avalanches, Openshaw, R., R.S. Henderson, W. Faszer and M. Salomon A307 (1991) 298
Vacuum separation using thin carbon foils, Lagomarsino, V., G. Manuzio, A. Pozzo and G. Testera A307 (1991) 309
Resistive plate counters readout system, Antoniazzi, L., G. Bressi, G. Introzzi, A. Lanza, G. Liguori, R. Nardò, P. Torre, P. Creti, E. Gorini, F. Grancagnolo and M. Panareo A307 (1991) 312
Electron, pion and multiparticle detection with a lead/scintillating-fiber calorimeter, Acosta, D., S. Buontempo, L. Calôba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, G. Fumagalli, G. Goggi, W. Hao, F.G. Hartjes, A. Henriques, P. Jenni, L. Linssen, M. Livan, A. Maio, L. Mapelli, M.R. Mondardini, B. Ong, H.P. Paar, F. Pastore, L. Poggioli, G. Polesello, F. Riccardi, A. Rimoldi, C.V. Scheel, J. Schmitz, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thomé, V. Vercesi, Y. Wang, R. Wigmans, C. Xu and K. You A308 (1991) 481

A study on the characteristics of some materials for electromagnetic calorimeters, Britvich, G.I., A.I. Peresypkin, V.G. Vasil'chenko, E.A. Krivandina, B.P. Sobolev, E.G. Devitsin, Yu.I. Hovsepyan, V.A. Kozlov and T.V. Uvarova A308 (1991) 509
Test of new light-and-strong material for anode wires of wire chambers, Fujita, K., M. Nakayama, T. Okusawa, A. Shimonaka, T. Takahashi, S. Tanaka, Y. Teramoto, T. Tsui, T. Yoshida, T. Yutori and M. Uchimura . . A308 (1991) 514
Progress in ultrafast CsI-photocathode gaseous imaging photomultipliers, Dangendorf, V., A. Breskin, R. Chechik and H. Schmidt-Böcking A308 (1991) 519
Comparison of CALOR89 model predictions with scintillator plate calorimeter data, Job, P.K., L. Price, J. Proudfoot, T. Handler, B.L. Bishop and T.A. Gabriel A309 (1991) 60
Prospects for using photosensitive dopants to improve the e/π ratio of liquid argon calorimeters, Anderson, D.F. and N.A. Amos A309 (1991) 69
Design and construction of the ZEUS barrel calorimeter, Derrick, M., D. Gacek, N. Hill, B. Musgrave, R. Noland, E. Petereit, J. Repond, R. Stanek and K. Sugano A309 (1991) 77
Construction and beam test of the ZEUS forward and rear calorimeter, ZEUS Calorimeter Group, A. Andresen, A. Bamberger, A. Bargende, F. Barreiro, U. Behrens, S. Bentvelsen, M. Brkic, B. Burow, A. Caldwell, G. Cases, F. Corriveau, J.A. Crittenden, A. Dake, A. Dannemann, J. Dawson, K. Dierks, G. Drews, J. Engelen, H. Fawcett, W. Frisken, A. Fürtjes, D. Gilkinson, L. Hagge, R. Hamatsu, D. Hanna, J. Hartmann, T. Hasegawa, D. Hasell, M. Hazumi, L. Hervás, E. Hilger, U. Holm, T. Ishii, P. de Jong, H. Kammerlocher, S. Kasai, S. Kitamura, R. Klanner, P. Kooijman, U. Kötz, M. Krämer, B. Krebs, W. Kröger, J. Krüger, M. Kuze, G. Levman, T. Lindenberg, H.v.d. Lugt, J. Martin, J. Mayer, J. Mitchell, P. Patel, T. Poser, K. Prange, S. Ritz, M. Rohde, T. Romanowski, E. Ros, H.-L. Schneider, D. Schäcke, W. Schulz, F. Selonke, W. Sippach, G. Smith, G. Stairs, J. Straver, G. Theisen, H. Tiecke, K. Tokushuku, B. Tröndle, T. Tsurugai, H. Uijterwaal, R. Ullmann, W. Vogel, K. Wick, T. Woeniger, S. Yamada and C. Youngman . . . A309 (1991) 101
On muon production and other leakage aspects of pion absorption in a lead/scintillating-fiber calorimeter, Acosta, D., S. Buontempo, L. Calôba, M. Caria, R. DeSalvo, A. Ereditato, R. Ferrari, G. Fumagalli, G. Goggi, W. Hao, F.G. Hartjes, A. Henriques, L. Linssen, M. Livan, A. Maio, L. Mapelli, M.R. Mondardini, B. Ong, H.P. Paar, F. Pastore, E. Pennacchio, L. Poggioli, G. Posello, F. Riccardi, A. Rimoldi, C.V. Scheel, J. Schmitz, J.M. Seixas, A. Simon, M. Sivertz, P. Sonderegger, M.N. Souza, Z.D. Thomé, V. Vercesi, Y. Wang, R. Wigmans, C. Xu and K. You A309 (1991) 143
Gases of possible interest to SSC muon detectors, Christophorou, L.G., P.G. Datskos and J.G. Carter A309 (1991) 160
Measurement of the reflection coefficient at the core–cladding interface in plastic scintillating fibers, Blumenfeld, H., E. Gaillard and P. Rebourgeard A309 (1991) 169
Tracking in an inhomogeneous solenoid, Ueno, K. A309 (1991) 179
Calibration and validation of a time of flight detector, Dreyer, T., M. Erdmann, J. Haas, W. Mohr, U. Seidler, G. Siegert, H.E. Stier and M. Wilhelm A309 (1991) 184
A study of the CsI–TMAE photocathode, Kwan, S. and D.F. Anderson A309 (1991) 190
An ionization chamber of large solid angle with integrated parallel plate avalanche counter for identification of slow heavy ions, Kiesewetter, J., K.-Th. Brinkmann, H. Freiesleben and H. Gassel A309 (1991) 196
Construction and performance of a 2.7 m long straw drift tube prototype chamber for the SSC, Oh, S.H., A.T. Goshaw and W.J. Robertson A309 (1991) 368
Test-beam performance of a tracking TRD prototype, Shank, J.T., J.S. Whitaker, V.A. Polychronakos, V. Radeka, D. Stephani, H. Beker, R.K. Bock, M. Botlo, C.W. Fabjan, J. Pfennig, M.J. Price, W.J. Willis, T. Akesson, V. Chernyatin, B. Dolgoshein, P. Nevski, A. Konstantinov, M. Potekhin, A. Romanjuk, V. Sosnovtsev, I. Gavrilenko, S. Muraviev and A. Shmeleva A309 (1991) 377
Use of a transition radiation detector in a beam of high energy hadrons, Errede, D., M. Sheaff, H. Fenker, L. Lueking, P. Mantsch and R. Jedicke A309 (1991) 386
A microstrip vertex detector for studying charm hadroproduction, WA82 Collaboration, M. Adamovich, Y. Alexandrov, F. Antinori, D. Barberis, W. Beusch, F. Bourgeois, A. Buys, M. Dameri, M. Davenport, J.P. Dufey, A. Forino, B.R. French, S. Gerasimov, R. Gessaroli, F. Grard, E. Heijne, R. Hurst, A. Jacholkowski, P. Jarron, A. Kirk, J.C. Lassalle, P. Legros, L. Malferrari, P. Martinengo, P. Mazzanti, C. Meroni, F. Muller, B. Osculati, A. Quareni, N. Redaelli, L. Rossi, G. Tomasini, E. Torassa, F. Viaggi and M. Zavertyaev A309 (1991) 401
Measurement of spatial resolutions and drift velocities in a drift-chamber filled with a helium–DME mixture, Cindro, V., H. Kolanoski, A. Lange, D. Lauterjung, F. Müller, T. Siegmund, W. Söder and H. Thurn A309 (1991) 411
Some properties of thin gap gas chambers, Hofer, H., P. Le Coultre, H.T. Li, X.G. Li, Y.S. Lu, X.W. Tang, J.H. Wang, R.J. Wu and K.S. Yang A309 (1991) 422
The design and construction of a Pb/scintillator sampling calorimeter with wavelength shifter fiber optic readout, Simon-Gillo, J., A. Farooq, M.W. Rawool-Sullivan, A. Ray, J. Shoemaker, J.P. Sullivan, K.L. Wolf, E.F. Barasch, J.G. Boissevain, D. Fox, A. Gavron, K. Holzscheiter, B.V. Jacak, T. Lopez, J. Kapustinsky, W. Sondheim, J.W. Sunier, H. Van Hecke and B. Wolf A309 (1991) 427

Performance of a liquid argon electromagnetic calorimeter with an "accordion" geometry, RD3 Collaboration, B. Aubert, A. Bazan, F. Cavanna, J. Colas, T. Leflour, J.P. Vialle, L. Baisin, J.C. Berset, C.W. Fabjan, D. Fournier, O. Gildemeister, P. Jenni, M. Lefebvre, C.P. Marin, M. Nessi, F. Nessi-Tedaldi, M. Pepe, G. Polesello,W. Richter, A. Sigrist, W.J. Willis, D.V. Camin, G. Costa, F. Gianotti, L. Mandelli, G. Pessina, L. Iconomidou-Fayard, B. Merkel, P. Pétroff and J.P. Repellin A309 (1991) 438
CUSB-II: a high precision electromagnetic spectrometer, Schamberger, R.D., U. Heintz, J. Lee-Franzini, D.M.J. Lovelock, M. Narain, J. Willins, C. Yanagisawa, P.M. Tuts, P. Franzini, S. Kanekal and Q.W. Wu . A309 (1991) 450
BGO crystals – radiation hard scintillators (*Letter to the Editor*), Yanovski, V.V., V.A. Chizhov and V.M. Skorikov A309 (1991) 596
A hadron-blind detector, Giomataris, Y. and G. Charpak A310 (1991) 589
The forward muon detector of the DELPHI experiment at LEP, Buytaert, J., L. De Boeck, F. Verbeure, C. Bricman, F. Cao, C. De Clercq, L. Etienne, B. Goorens, J. Lemonne, F. Stichelbaut, S. Tavernier, G. Van Beek, C. Vander Velde, W. Van Doninck, L. Van Lancker, J. Wickens, E. Daubie, F. Defontaines, F. Grard, J. Kestemann, O. Pingot and C. Poiret A310 (1991) 596
Apparatus for precise drift time change measurements by means of photoelectrons emitted from the cathode, Baksay, L., S. Lökös, R. Magahiz, Gy.L. Bencze, Z. Fodor, A. Bujak and K. Banicz A310 (1991) 607
Electron multiplication in liquid argon on a tip array, Bressi, G., M. Cambiaghi, G. Carugno, E. Conti and E. D'Uscio A310 (1991) 613
Using neural networks with jet shapes to identify b jets in e^+e^- interactions, Bellantoni, L., J.S. Conway, J.E. Jacobsen, Y.B. Pan and S.L. Wu A310 (1991) 618
The relativistic charged particles identification method based on the goodness-of-fit ω_n^3-criterion, Zrelov, P.V. and V.V. Ivanov A310 (1991) 623

Instruments and Methods for Nuclear Spectroscopy

The HILI – a multidetector system for light ions and heavy ions, Shapira, D., K. Teh, J. Blankenship, B. Burks, L. Foutch, H.J. Kim, M. Korolija, J.W. McConnell, M. Messick, R. Novotny, D. Rentsch, J. Shea and J.P. Wieleczko A301 (1990) 76
Sub-keV X-ray detection with a low-pressure multistep detector, Vartsky, D., A. Breskin, R. Chechik, M.B. Goldberg and G. Malamud A301 (1990) 96
A semiconductor–scintillator telescope using a single silicon diode, Pasquali, G., G. Poggi, M. Bini, N. Taccetti and G. Prete A301 (1990) 101
Monitoring of electron drift velocity in drift chambers with α-delay recoils (*Letter to the Editor*), Vorobyov, A.A., V.S. Guselnikov, A.Yu. Maiorov, O.E. Prokofiev and V.M. Zaitsev A301 (1990) 167
Design of a tagged photon spectrometer for use with the Mainz 840 MeV microtron, Anthony, I., J.D. Kellie, S.J. Hall, G.J. Miller and J. Ahrens A301 (1990) 230
The response of NaI(Tl) to 30–60 MeV $Z = 1$ particles, Romero, J.L., G.A. Needham, F.P. Brady, C.M. Castaneda and T.D. Ford A301 (1990) 241
Propagation of an internuclear hadron cascade at energies below 5 GeV, Kazarnovsky, M.V., I.N. Kopeikin and S.V. Serezhnikov A301 (1990) 246
Operation of a high-purity silicon diode alpha particle detector at 1.4 K (*Letter to the Editor*), Martoff, C.J., E. Kaczanowicz, B.J. Neuhauser, E. Lopez, Y. Zhang and F.P. Ziemba A301 (1990) 376
A thin plastic scintillator time-zero detector and flux monitor, Galindo-Uribarri, A., T.E. Drake, G.C. Ball, N.C. Bray, J.S. Forster, E. Hagberg, D. Horn and C. Pruneau A301 (1990) 457
Calculations of higher multipole components in a large superconducting quadrupole magnet, Napolitano, J. and T. Hunter A301 (1990) 465
DAPHNE: a large-acceptance tracking detector for the study of photoreactions at intermediate energies, Audit, G., A. Bloch, N. D'Hose, V. Isbert, J. Martin, R. Powers, D. Sundermann, G. Tamas, P.A. Wallace, S. Altieri, A. Braghieri, F. Fossati, P. Pedroni, T. Pinelli, J. Bechade, P.H. Carton, S. Conat, D. Foucaud and M. Goldsticker A301 (1990) 473
Helium-filled proportional counter operated at low temperatures higher than 13 K, Fukumura, K., R. Katano, T. Kobayashi, A. Nakanishi and Y. Isozumi A301 (1990) 482
Stability in operation of a gas-filled proportional counter at liquid nitrogen temperature, Fukumura, K., T. Makita, T. Kobayashi and Y. Isozumi A301 (1990) 485
Measurement of β^+-activity by detecting 511 keV annihilation γ-rays (*Letter to the Editor*), Kawade, K., K. Katou, A. Osa, M. Shibata, H. Yamamoto, T. Katoh, T. Iida and A. Takahashi A301 (1990) 594
A position-sensitive microchannel-plate detector for 27-keV ions, Zhang Yingji, Wei Yongqin, Wang Qiuyu and Qian Wenguo A302 (1991) 76
Properties of ruthenium oxide resistors as sensitive elements of composite bolometers, Dambra, R., G. Gallinaro, F. Gatti and S. Vitale A302 (1991) 83

The high sensitivity beta–gamma spectrometer ELEGANTS V for rare β(e) and ββ(ee) decays, Ejiri, H., K. Higa, T. Kamada, H. Kobiki, K. Matsuoka, K. Okada, H. Sano, T. Shibata, T. Shima, N. Tanabe, J. Tanaka, T. Taniguchi, T. Watanabe and N. Yamamoto A302 (1991) 304
The determination of the absolute response function of a deuterated benzene total energy detector to 6.13 MeV γ-rays, Croft, S. and M. Bailey A302 (1991) 315
The effect of the applied voltage on ionization in a parallel plate ionization chamber, Tanaka, N. and T. Matsumoto A302 (1991) 327
Low energy charged particle detection in a light-ion storage ring (*Letter to the Editor*), Pitts, W.K., J.S. Price, S.F. Pate, B. von Przewoski, T. Rinckel and F. Sperisen A302 (1991) 382
A two-dimensional position-sensitive detection system for the ^{8}Be nuclei in heavy ion reactions (*Letter to the Editor*), Ideno, K., Y. Tomita, Y. Sugiyama, H. Ikezoe, S. Hanashima and Y. Nagame A302 (1991) 385
2.45 GHz ECR ion source and expected performance for polarized heavy ion source, Tanaka, M., T. Ohshima, K. Katori, M. Fujiwara, T. Itahashi, H. Ogata, M. Kondo and L.W. Anderson A302 (1991) 460
Rise time spectroscopy of protons and alphas in a stilbene scintillator, Harihar, P., W.J. Stapor, A.B. Campbell and A.R. Knudson A302 (1991) 469
Particle–γ coincidence applied to observation of spin-flip probability in the (^{7}Li, ^{7}Be) reaction, Nakayama, S., T. Yamagata, M. Tanaka, M. Inoue, K. Yuasa, T. Itahashi, H. Ogata, N. Koori and K. Shima A302 (1991) 472
Energy calibration of the time-of-flight fission fragments spectrometer, Alexandrov, A.A., I.A. Alexandrova, S.L. Podshibyakin, Y.V. Pyatkov, A.I. Slyusarenko, A.N. Shemetov and R.A. Shehmametiev A302 (1991) 478
Low-background measurement of fast neutrons by means of Ge detectors, Ejiri, H., K. Matsuoka and E. Choi A302 (1991) 482
The ^{136}Xe double-beta-decay track experiment, Artemiev, V.A., E.V. Brakchman, M.A. Ivanovsky, A.K. Karelin, V.V. Kirichenko, V.M. Knyazev, O.M. Kozodaeva, V.A. Lubimov, A.I. Mitin, V.P. Nikolaev, T.N. Tsvetkova and O.Ya. Zeldovich A303 (1991) 309
A time-of-flight spectrometer for unslowed fission fragments, Alexandrov, A.A., I.A. Alexandrova, A.V. Ermolenko, Yu.A. Korjuk, D.S. Nikulin, Yu.F. Pevchev, S.L. Podshibyakin, Yu.V. Pyatkov, S.I. Sitnikov, A.I. Slyusarenko, A.N. Shemetov, R.A. Shehmametiev and N.N. Demidovitch A303 (1991) 323
Transmission properties of a counter-rotating pair of disk choppers, Copley, J.R.D. A303 (1991) 332
The response of a liquid Xe ionization chamber to 5.3 MeV α-particles, Ichinose, H., T. Doke, J. Kikuchi, A. Hitachi, K. Masuda and E. Shibamura A305 (1991) 111
Response of a BaF_2 detector to photons from 75 to 200 MeV, Clayton, J., W. Benenson, N. Levinsky, J.D. Stevenson, M.F. Mohar, E. Hallin, J.C. Bergstrom, H.S. Caplan, R.E. Pywell, D.M. Skopik and J.M. Vogt A305 (1991) 116
Timing properties of a stop detector for a time-of-flight system, Mizota, T., K. Yuasa-Nakagawa, S.M. Lee and T. Nakagawa A305 (1991) 125
Experimental response functions spanning the gamma-ray energy range of 123.6 keV to 11.67 MeV and response matrix generation for bismuth germanate scintillation detecors, Kiziah, R.R. and J.R. Lowell . . . A305 (1991) 129
Field mapping and corrections of the magnet of a radio-frequency mass spectrometer, Coc, A., R. Fergeau, R. Grabit, M. Jacotin, J.F. Kepinski, R. Le Gac, G. Le Scornet, G. Petrucci, M. de Saint Simon, G. Stefanini, C. Thibault and F. Touchard A305 (1991) 143
Efficiency measurements of large volume organic scintillator counters to neutrons of energy from 54 to 360 MeV, Paticchio, V., G. D'Erasmo, E.M. Fiore, L. Fiore, N. Grion, G. Guarino, A. Pantaleo and R. Rui . . A305 (1991) 150
A low-cost plastic detector for energetic neutrons, Lipnik, P., A. Bol, J.F. Gilot, P. Leleux and P. Macq A305 (1991) 158
d(HI, ^{3}He) reaction spectroscopy for the formation of pionic bound states, Yamazaki, T., R.S. Hayano and H. Toki A305 (1991) 406
Efficiency of a large solid angle detecting system for heavy ions, Bruno, M., M. D'Agostino, P.M. Milazzo, S. Ostuni, E. Fuschini and A. Moroni A305 (1991) 410
Measurements of (n, p) reactions at medium energy using a magnetic spectrometer, Matsuoka, N., T. Noro, F. Hiei, M. Iwaki, H. Sakaguchi, H. Okamura, H. Sakai, A. Okihana and M. Yosoi A305 (1991) 415
The response of a cylindrical proton recoil proportional counter to neutrons impinging perpendicularly to its axis, Knauf, K. and W. Vorbrugg A305 (1991) 419
A two-dimensional scintillation detector for small angle neutron scattering, Heiderich, M., R. Reinartz, R. Kurz and J. Schelten A305 (1991) 423
A note on the atomic composition and mean Fermi potential of a fluid used in neutron lifetime measurements, Tervisidis, F. and N. Tsagas A305 (1991) 433
A charcoal-pumped ^{3}He cryostat for neutron diffraction, Kockelmann, W., W. Schäfer, G. Will, J. Chazipetros, B. Dujka and W. Schuster A305 (1991) 435
Superconducting aluminium tunnel junctions with indium absorbers for low-energy X-ray spectroscopy, Finkbeiner, F., A. Hahn, W. Heeringa, P. Jany, H.O. Klages and T. Strobelt A306 (1991) 215
Improved beta detection efficiency with granular aluminum superconducting strips, Gabutti, A., K.E. Gray, G.M. Pugh and R.C. Tiberio A306 (1991) 220
A position sensitive photon detector used as a charged particle detector, Lindroos, M. and Ö. Skeppstedt . . . A306 (1991) 225
On the axial distribution of light output in cylindrical scintillation detectors, Grinyov, B.V. and V.L. Yankelevich A306 (1991) 229

A recoil separator for use in radioactive ion beam experiments, Smith, M.S., C. Rolfs and C.A. Barnes A306 (1991) 233
On the possibility of using middle and high energy proton beams to study nuclear pumped lasers, Sidorkin, S.F., V.I. Derzhiev and S.I. Yakovlenko A306 (1991) 240
The operation of microchannel plates at high count rates, Fraser, G.W., M.T. Pain, J.E. Lees and J.F. Pearson A306 (1991) 247
Reconstructed intensity distribution of the positron source used in two-dimensional measurements of the angular correlation of annihilation radiation, Dai, G.H., A.W. Weeber and P.E. Mijnarends A306 (1991) 261
Energy resolution tests of 125 mm diameter cylindrical NE213 detector using monoenergetic gamma rays, Naqvi, A.A., H. Al-Juwair and K. Gul A306 (1991) 267
Some aberration and other properties of an Enge split-pole spectrograph, Barker, P.H., S.C. Baker, S.A. Brindhaban and M.J. Brown A306 (1991) 272
Method for the calculation of charged particle momentum in magnetic spectrometers, Volkov, A.D., A.V. Voskanian, O.G. Voskerchian, B.J. Zalikhanov, G. Kalmar, A.J. Ketikian, E.V. Komissarov, V.S. Kurbatov, V.Z. Serdyuk and V.V. Sidorkin A306 (1991) 278
A study for the use of the LNS Crystal Ball multidetector as a neutral pions spectrometer, Badalá, A., R. Barbera, A. Palmeri, G.S. Pappalardo, F. Riggi and A.C. Russo A306 (1991) 283
A calorimeter for neutron flux measurement, Richardson, J.M., T.E. Chupp, R.G.H. Robertson and J.F. Wilkerson A306 (1991) 291
Space–time focusing of polarized neutrons, Alefeld, B., A. Kollmar, G. Badurek and G.M. Drabkin A306 (1991) 300
Application of a high efficiency selective laser ion source at the IRIS facility (*Letter to the Editor*), Alkhazov, G.D., L.Kh. Batist, A.A. Bykov, V.D. Vitman, V.S. Letokhov, V.I. Mishin, V.N. Panteleyev, S.K. Sekatsky and V.N. Fedoseyev A306 (1991) 400
Low-energy particle production and transport for 200 GeV/c protons in iron and comparisons with experimental data, Alsmiller Jr, R.G. and F.S. Alsmiller A306 (1991) 500
Electron-transporter spectrometer for on-line isotope separator, Parmonen, J.M., Z. Janas, W.H. Trzaska, J. Äystö, J. Kantele, P.P. Jauho, A. Jokinen and H. Penttilä A306 (1991) 504
A large solid angle, high stopping power Bragg curve spectrometer for coincidence measurements, Frawley, A.D., L.H. Wright, R.C. Kline, E.P. Gavathas and L.C. Dennis A306 (1991) 512
New neutron detection methods using laser technique, Soramoto, S., K. Mochiki, M. Nakazawa, A. Okumura, H. Hayashida and H. Nakamura A306 (1991) 524
A proposal of a new in-core neutron monitor using nuclear pumped laser, Okumura, A., S. Soramoto, H. Hayashida, H. Nakamura and M. Nakazawa A306 (1991) 530
Focusing ions by viscous drag and weak electric fields in an ion guide, Iivonen, A., K. Riikonen, R. Saintola, K. Valli and K. Morita A307 (1991) 69
Response function of a BaF_2 detector to electrons, Fonte, R., A. Insolia, G. Lanzanó, A. Pagano, G.V. Russo, G. Palamá, C.W. de Jager and H. de Vries A307 (1991) 80
A systematic study of primary ionization cluster counting at low gas pressures, Malamud, G., A. Breskin and R. Chechik A307 (1991) 83
Comparative study of new 130 mm diameter fast photomultipliers for neutron detectors, Moszyński, M., G.J. Costa, G. Guillaume, B. Heusch, A. Huck and S. Mouatassim A307 (1991) 97
The resistive plate counter as a neutron detector (*Letter to the Editor*), Calligarich, E., R. Cardarelli, A. Cesana, S. Colangelo, G.L. Raselli, G. Sandrelli, M. Terrani and A. Testi A307 (1991) 142
Minimizing "glitches" in XAFS data: A model for glitch formation, Bridges, F., X. Wang and J.B. Boyce A307 (1991) 316
XYZt, a multidetector for fast intermediate-mass fragments, Rudolf, G., J.C. Adloff, B. Bilwes, R. Bilwes, F. Cosmo, M. Glaser, A. Kamili, F. Scheibling and L. Stuttgé A307 (1991) 325
Gaseous Δ E-type phoswiches, Chambon, B., F. Benrachi, B. Cheynis, D. Drain, C. Pastor, L. Vagneron, A. Giorini, D. Heuer, A. Lleres, J.B. Viano, D. Fabris, G. Nebbia, G. Prete and G. Viesti A307 (1991) 333
The Fano factor in gaseous xenon: a Monte Carlo calculation for X-rays in the 0.1 to 25 keV energy range, Dias, T.H.V.T., F.P. Santos, A.D. Stauffer and C.A.N. Conde A307 (1991) 341
Variation of energy linearity and w value in gaseous xenon radiation detectors for X-rays in the 0.1 to 25 keV energy range: a Monte Carlo simulation study, Santos, F.P., T.H.V.T. Dias, A.D. Stauffer and C.A.N. Conde A307 (1991) 347
The absolute yield, angular distribution and resonance widths of the 6.13, 6.92 and 7.12 MeV photons from the 340.5 resonance of the $^{19}F(p, \alpha\gamma)^{16}O$ reaction, Croft, S. A307 (1991) 353
On the use of switch functions in describing pulsed neutron moderators, Robinson, R.A. and J.M. Carpenter . A307 (1991) 359
Cross talk and diaphony in neutron detectors, Désesquelles, P., A.J. Cole, A. Dauchy, A. Giorni, D. Heuer, A. Lleres, C. Morand, J. Saint-Martin, P. Stassi, J.B. Viano, B. Chambon, B. Cheynis, D. Drain and C. Pastor A307 (1991) 366
A large solid angle multiparameter neutron detector, Ricco, G., M. Anghinolfi, P. Corvisiero, E. Durante, S. Maggiolo, P. Prati, A. Rottura and M. Taiuti A307 (1991) 374
Fast-neutron-induced cross sections on ^{20}Ne, Reffo, G., M.H. Mac Gregor and T. Komoto A307 (1991) 380
Scattering effects within an absorbing sphere immersed in a field of neutrons, Copley, J.R.D. A307 (1991) 389
Calculated neutron response of a Bonner sphere spectrometer with ^3He counter, Mares, V., G. Schraube and H. Schraube A307 (1991) 398

The dangers of digitization. An analysis of digitized position sensitive detectors, Geesmann, H., G.F. Hanne, A.D. Stauffer and J.A. Stauffer A307 (1991) 413
The ground support equipment for the transient gamma-ray spectrometer, Owens, A., T. Nolan, N. Gehrels and G. Smith A307 (1991) 420
A multiprocessor controlled data acquisition system, Lu, Y., T. Markiewicz, J. Gress, J. Kochocki and J. Poirier A307 (1991) 425
Study of the CLAMSUD magnetic spectrometer focal plane by a simulation code, Anzalone, A., A. Badalá, R. Barbera, L. Calabretta, A. Palmeri, G.S. Pappalardo, F. Riggi and A.C. Russo A308 (1991) 533
Broad range electron spectrometer using permanent magnets, Morgan, G.L., N.S.P. King, P.W. Lisowski, K.G. Boyer, H.A. Enge, S.B. Kowalski, R.F. Holsinger, R.R. Lown, S.G. Iversen, J.R. Tinsley and R.M. Baltrusaitis A308 (1991) 544
Ballistic deficit correction methods for large Ge detectors, Moszyński, M. and G. Duchêne A308 (1991) 557
Measurement of the energy dependence of the neutron loss per bounce function on reflection from oil and grease surfaces using monochromatic ultracold neutrons, Richardson, D.J., J.M. Pendlebury, P. Iaydjiev, W. Mampe, K. Green and A.I. Kilvington A308 (1991) 568
OLGA II, an on-line gas chemistry apparatus for applications in heavy element research, Gäggeler, H.W., D.T. Jost, U. Baltensperger, A. Weber, A. Kovacs, D. Vermeulen and A. Türler A309 (1991) 201
A 27 cm^2 scintillator for alpha particle detection of some MeV with 28% energy- and 240 ps time-resolution, Wattecamps, E., G. Rollin and M. Keters A309 (1991) 209
A ^{8}Be detection system for angular distribution measurements, Sugimitsu, T. and N. Hori A309 (1991) 218
Experimental solid-angle correction for gamma angular correlations, Procida Veissid, V.L.C., G. Kenchian and M.T.F. da Cruz A309 (1991) 222
A Ge–NaI(Tl) spectrometer with Compton suppression and gamma coincidence counting. Application to ^{189}Ir and ^{101}Rh activity measurements, Massé, D., A. Adam and J. Laurec A309 (1991) 227
Systematic treatment of the photopeak efficiency, Baba, H., A. Yokohama, Y. Sakuraba, N. Nitani, T. Saito and S. Baba A309 (1991) 236
Une analyse d'une déformation, aux basses énergies de spectres de photons relevés au moyen d'un HPGe, Coquette, A. A309 (1991) 248
High resolution detection of X-rays with a large area Nb/Al–AlO_x/Al/Nb superconducting tunnel junction (*Letter to the Editor*), Matsumura, A., T. Takahashi and M. Kurakado A309 (1991) 350
Double beta decay prototype detector with multiwire drift tubes in the Geiger mode, Dassie, D., Ph. Hubert, M.C.P. Isaac, C. Izac, F. Leccia, P. Mennrath, C. Longuemare, D. Blum, J. Busto, J.E. Campagne, S. Jullian, D. Lalanne, F. Laplanche, F. Natchez, G. Szklarz, T. Lamhamdi, I. Linck and F. Scheibling A309 (1991) 465
Ionization energy loss in very thin absorbers, Grishin, V.M., V.K. Ermilova and S.K. Kotelnikov A309 (1991) 476
Nuclear charge separation of low-energy medium-mass ions with a gas-filled magnetic spectrometer, Scarlassara, F., B.G. Glagola, W. Kutschera, K.E. Rehm and A.H. Wuosmaa A309 (1991) 485
Measurement of liquid xenon scintillation from heavy ions using a silicon photodiode, Masuda, K., E. Aprile, H.L. Ding, T. Doke, S.S. Gau, M.P.J. Gaudreau, A. Hitachi, H. Ichinose, N. Ishida, M. Kase, T. Kashiwagi, J. Kikuchi, T. Nakasugi, E. Shibamura, K. Sumorok and T. Takahashi A309 (1991) 489
Study on BGO resolution with clipped photomultiplier pulses, Gervino, G., M. Anghinolfi, M. Castoldi, P. Corvisiero, G. Ricco, M. Sanzone, M. Taiuti and A. Zucchiatti A309 (1991) 497
Study of the excitation function of ^{56}Fe(n, p)^{56}Mn threshold reaction, Fuga, P. A309 (1991) 500
Silicon for ultra-low-level detectors and ^{32}Si (*Letter to the Editor*), Plaga, R. A309 (1991) 598
A high-resolution isotope separator using symmetrically-split magnets (*Letter to the Editor*), Fujioka, M., H. Sunaoshi, H. Wollnik and T. Nomura A309 (1991) 600
Amadeus – a new type of large area scintillation detector with position-, energy- and time-of-flight determination, Anton, G., J. Arends, W. Beulertz and J. Hey A310 (1991) 631
Mass resolution of recoil fragment detector telescopes for 0.05–0.5 *A* MeV heavy recoiling fragments, Whitlow, H.J., B. Jakobsson and L. Westerberg A310 (1991) 636
A method for determining the branching ratio for the superallowed decay: ^{10}C(O^+, gs) → ^{10}B(O^+, 1.74 MeV) + e^+ + ν, Kroupa, M.A., S.J. Freedman, P.H. Barker and S.M. Ferguson A310 (1991) 649
Response functions of Si detectors to monoenergetic electrons and positrons in the energy range 0.8–3.5 MeV, Frommhold, Th., W. Arnold, H. Friedrichs, R. Göbel, R.D. Heil, U. Kneissl, U. Seemann, F. Steiper and C. Kozhuharov A310 (1991) 657
A long position and angle resolving light ion detector for the Munich Q3D magnetic spectrograph (*Letter to the Editor*), Zanotti, E., M. Bisenberger, R. Hertenberger, H. Kader and G. Graw A310 (1991) 706

Neutron Physics

Estimation of bounds for statistical and systematic uncertainties of the covariance matrix in relative neutron cross-section measurements, Krishna Kumar, P.T. A309 (1991) 256

Correction procedures for variable intensity neutron time-of-flight measurements, Whitten Jr, C.A. A309 (1991) 264
Use of a Drabkin spin resonator in inverted geometry neutron time-of-flight spectroscopy, Badurek, G., A. Kollmar, A. Seeger and W. Schalt A309 (1991) 275
The average number of reflections in a curved neutron guide, Van Well, A.A., V.O. de Haan and D.F.R. Mildner A309 (1991) 284
Neutron response of a spherical proton recoil proportional counter, Weise, K., M. Weyrauch and K. Knauf . . A309 (1991) 287
A high-resolution neutron spectrometer using mica analyzers and the pulsed cold source, Inoue, K., T. Kanaya, Y. Kiyanagi, S. Ikeda, K. Shibata, H. Iwasa, T. Kamiyama, N. Watanabe and Y. Izumi A309 (1991) 294
Scintillator fiber optic long counter for neutron detection, Spector, G.B., T. McCollum and A.R. Spowart . . . A309 (1991) 303
A strong dynamic neutron source based on the ^{209}Bi(γ, n) reaction, Moreh, R., R. Fedorowicz, W.V. Prestwich, T.J. Kennett and M.A. Islam A309 (1991) 503
A neutron hodoscope for medium energy np scattering experiments, Garnett, R., D. Grosnick, K. Johnson, D. Lopiano, Y. Ohashi, A. Rask, T. Shima, H. Spinka, R. Stanek, D. Underwood, A. Yokosawa, M. Beddo, G. Burleson, J.A. Faucett, G. Kyle, M. Devereux, G. Glass, S. Nath, J.J. Jarmer, S. Penttilä, R. Jeppesenand G. Tripard A309 (1991) 508
A large volume magnetic shielding system for the ILL neutron–antineutron oscillation experiment, Bitter, T., F. Eisert, P. El-Muzeini, M. Kessler, U. Kinkel, E. Klemt, W. Lippert, W. Meienburg, R. Werner, K. Gobrecht and D. Dubbers A309 (1991) 521
A new method to measure prescission neutrons in heavy-ion induced fission, Lehmann, M., D. Hilscher, D. Husson, G. Ingold, U. Jahnke, H. Rossner and W.P. Zank A309 (1991) 530

Computer Automated Measurement and Control

CAMAC data acquisition system using a transputer link, Nagasaka, Y., I. Arai, K. Yagi and A. Manabe A301 (1990) 109
A Fastbus module for trigger applications based on a digital signal processor and on programmable gate arrays, Battaoitto, P., A. Colavita, F. Fratnik and L. Lanceri A301 (1990) 265
A fast pulse height analysis system with gain stabilisation for nuclear process control instruments, Hartley, P.E. and A.J. McEwan A301 (1990) 269
A computerized system for beam measurements and control at the KFUPM 350 kV ion accelerator, Abdel-Aal, R.E., H.A. Al-Juwair and M.A. Al-Sunaidi A301 (1990) 489
High-speed data acquisition and filtering with a FASTBUS master module, Arai, Y. and S. Uehara A301 (1990) 497
BATS, the readout control of UA1, Botlo, M., J. Dorenbosch, M. Jimack, F. Szoncsó, A. Taurok and G. Walzel A302 (1991) 331
An on-line data acquisition system based on a NORSK DATA ND-100 computer, Roy, A., P.K. Dasgupta, A. Bandyopadhyay and S.K. De A303 (1991) 342
A computer system for on-line analysis and monitoring of a nuclear multidetector, Finocchiaro, P. A305 (1991) 162
Performances of the central L3 Data Acquisition system, Angelov, T., B. Bertucci, S. Falciano, M. Fukushima, D. Linnhöfer, B. Martin and G. Medici A306 (1991) 536
A small multiparameter data acquisition system based on a VME-PC/AT, Szekely, G., W. Klamra, Th. Lindblad and B. Lund-Jensen A306 (1991) 540
Readout control for high luminosity accelerators, Belusevic, R. and G. Nixon A307 (1991) 110
An automated monitoring environment for the Kolar Gold Fields nucleon decay experiment, Adarkar, H., S.R. Dugad, S.D. Kalmani, M.R. Krishnaswamy, N.K. Mondal, P.S. Murty, P. Nagaraj, V.S. Narasimham, L.V. Reddy, B. Satyanarayana, Y. Hayashi, N. Ito, S. Kawakami, T. Nakamura, K. Tanaka and S. Miyake . A308 (1991) 574
The L3 database system, Adeva, B., P. Bagnaia, S. Banerjee, L. Barone, D. Boutigny, F. Bruyant, P. Cardenal, N. Colino, E. Gonzalez, M. Guanziroli, Y. Karyotakis, F. Linde, R. Mount, E. Nagy, L. Niessen, J. Perrier, M. Pieri, J. Rose, S. Shevchenko, A.A. Syed, I. Vorobiev and Y.F. Wang A309 (1991) 318
A versatile programmable CAMAC random pulse generator, Abdel-Aal, R.E. A309 (1991) 331
A multiplexed 200 MSPS waveform digitizer with zero suppression for MACRO, Klein, S.R. and E. Hazen . . A309 (1991) 536

Nuclear Electronics

Ion-implanted silicon detectors processed in a 100 mm wafer, Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, R. Brenner, M. Andersson, K. Leinonen and H. Ronkainen A301 (1990) 116
A charge division method for the determination of the γ-conversion point in a liquid krypton calorimeter, Fedyakin, N.N., R.N. Krasnokutsky, L.L. Kurchaninov, R.S. Shuvalov and V.V. Tikhonov A301 (1990) 121
Three physics applications using time digitizing modules, Trower, W.P. A301 (1990) 129
Strip readout electronics for the MACRO experiment, Ambrosio, M., G.C. Barbarino, F. Guarino, G. Osteria and L. Satta A301 (1990) 275

A study of the short-term rate effect in Philips XP-2008 photomultiplier tubes, Bianco, S., F.L. Fabbri, L. Passamonti, V. Russo, A. Spallone and A. Zallo A301 (1990) 279
Fast neutron damage of silicon PIN photodiodes, Dąbrowski, W., K. Korbel and A. Skoczeń A301 (1990) 288
Measurement of charge with an active integrator in the presence of noise and pileup effects. A choice of parameters in the charge division method, Fanet, H. and J.C. Lugol A301 (1990) 295
CMOS low noise amplifier for microstrip readout. Design and results, Nygård, E., P. Aspell, P. Jarron, P. Weilhammer and K. Yoshioka A301 (1990) 506
Some software algorithms for microprocessor ratemeters, Savić, Z. A301 (1990) 517
Precision energy measurements of gamma rays from ^{44}Ti and ^{133}Ba, Wesselborg, C. and D.E. Alburger A302 (1991) 89
Computer simulations of the behaviour of the partial charge collection model in thick HgI_2 γ-detectors, Olmos, P., J.M. Perez, G. Garcia-Belmonte, A. Bru and J.L. de Pablos A302 (1991) 91
Delay line readout of microchannel plates in a prototype position-sensitive photomultiplier tube, Williams, M.B., S.E. Sobottka and J.A. Shepherd A302 (1991) 105
Laser-enhanced proportional gas scintillations, Lindblom, P., T. Olsson and O. Solin A302 (1991) 113
On the model of the limited streamer mechanism (*Letter to the Editor*), Tang Xiaowei A302 (1991) 186
A multiplex-switch controller, Brendle, M. and K. Schmidt A302 (1991) 339
A digital preprocessor for multiparameter experiments, Brendle, M., M. Ermer, P. Grabmayr, J. Kotz and A. Mondry A302 (1991) 342
Geometry dependence of the empirical relationship between volume and efficiency for Ge detectors (*Letter to the Editor*), Pascarelle, S.M., A. Owens, N. Gehrels and B.J. Teegarden A302 (1991) 388
A VME based data acquisition system for a 2D-gasfilled detector, Barbosa, A.F., C. Boulin, A. Gabriel, F. Golding, P. Leyendecker and C. Riekel A302 (1991) 489
A new method to remove helium impurity from a xenon filled detector with a membrane gas separator, Haba, J., A. Suzuki, N. Kanda, Y. Nagashima, Y. Fukushima, S. Nakamura, K. Ogawa, M. Sakuda, Y. Watase, N. Terunuma and I. Nakano A303 (1991) 346
Beam test results of an ion-implanted silicon strip detector on a 100 mm wafer, Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, R. Brenner, M. Andersson, K. Leinonen, H. Ronkainen, L. Hubbeling, M. Turala, W. Dulinski, D. Husson, A. Lounis, M. Schaeffer, R. Turchetta and J. Chauveau A305 (1991) 173
A study of the factors affecting the electron lifetime in ultra-pure liquid argon, Bettini, A., A. Braggiotti, F. Casagrande, P. Casoli, P. Cennini, S. Centro, M. Cheng, A. Ciocio, S. Cittolin, D. Cline, B. Dainese, F. Gasparini, L. Mazzone, R. Munoz, G. Muratori, A. Pepato, G. Piano Mortari, P. Picchi, F. Pietropaolo, P. Rossi, C. Rubbia, S. Suzuki, H. Wang and M. Zhou A305 (1991) 177
A low noise figure nuclear spectroscopy amplifier (*Letter to the Editor*), Dési, S. A305 (1991) 214
A mixer unit for data acquisition, Guazzoni, P., G. Taiocchi and L. Zetta A305 (1991) 442
Hybrid low-noise charge preamplifiers for heavy-ion detectors, Bassini, R., C. Boiano, S. Brambilla, I. Iori, M. Malatesta and A. Moroni A305 (1991) 449
An analog mean-timer for long scintillation counters (*Letter to the Editor*), Cavestro, A., D. Gibin, A. Guglielmi, F. Mattioli, M. Mezzetto, P.G. Schiavon, G. Puglierin and M. Vascon A305 (1991) 488

Proceedings of the Second International Workshop on Silicon Pixel Detectors for Particles and X-rays (Leuven, Belgium, June 19–21, 1990)

Section I. Pixel detectors in particle physics

Use of pixel detectors in elementary particle physics, Karchin, P.E. A305 (1991) 497
Future potential of charge coupled devices as detectors of ionising radiation, Acton, P., G. Agnew, R. Cotton, S. Hedges, A.K. McKemey, M. Robbins, T. Roy, S.J. Watts, C.J.S. Damerell, R.L. English, A.R. Gillman, A.L. Lintern, D. Su and F.J. Wickens A305 (1991) 504
Observation of single minimum ionising particles with amorphous silicon diodes, Aleksan, R., T. Bolognese, B. Equer, A. Karar and J.M. Reymond A305 (1991) 512
Design and performance of semiconductor detectors with integrated amplification and charge storage capability, Klein, P., P. Lechner, G. Lutz, K. Schuster, L. Strüder, J. Kemmer, U. Prechtel, T. Ziemann, B. Heinemann and R. Richter A305 (1991) 517

Section II. Circuit design

Pixel detectors with local intelligence: an IC designer point of view, Krummenacher, F. A305 (1991) 527
Simulation, design and fabrication of large area implanted silicon two-dimensional position sensitive radiation detectors, Aite, K., P. Hári, W. Bijker and J. Middelhoek A305 (1991) 533
Design implications of a p-well CMOS technology for the realization of monolithic integrated pixel arrays, Vanstraelen, G., C. Claeys, I. Debusschere and G. Declerck A305 (1991) 541
A proposed pixel detector based on floating base transistors, Ardelean, J., R.L. Chase and A. Hrisoho A305 (1991) 549

Effect of $1/f$ noise on the resolution of CMOS analog readout systems for microstrip and pixel detectors, Chang, Z.Y. and W. Sansen A305 (1991) 553
Position-encoding smart pixel arrays, Dierickx, B. A305 (1991) 561

Section III. Prospects for pixel detectors in various applications

CCD performance limitations: theory and practice, Burt, D.J. A305 (1991) 564
Use of EGS4 for the evaluation of the performance of a silicon detector for X-ray digital radiography, Bencivelli, W., E. Bertolucci, U. Bottigli, A. Del Guerra, D. Mazzei, A. Messineo, W.R. Nelson, P. Randaccio, V. Rosso, P. Russo and A. Stefanini A305 (1991) 574
A silicon detection system for DNA-sequencing, Schooneveld, E.M., S.A. Audet, C.W.E. van Eijk, S.J. Gelsema, R.W. Hollander and S.E. Wouters A305 (1991) 581

Section IV. Technological aspects of pixel detectors

Qualification of the fabrication process for Si detectors by neutron activation analysis, Böhm, G., J.I. Kim and J. Kemmer A305 (1991) 587
Nonideal behaviour of buried channel CCDs caused by oxide and bulk silicon traps, Kandiah, K. and F.B. Whiting A305 (1991) 600
Experimental detector chip for soft X-ray applications, Wouters, S.E., S.A. Audet and T. Otaredian A305 (1991) 608

Section V. New developments in technology

An overview of CMOS-SOI technology and its potential use in particle detection systems, Colinge, J.-P. A305 (1991) 615

Section VI. Round table sessions

Introduction A305 (1991) 620

VI(a). Pixel detectors in particle physics

The status of vertex dectectors and specifications for pixel detectors in particle physics experiments A305 (1991) 621

VI(b). Readout circuit design

Matching properties of MOS transistors, Pelgrom, M.J.M. A305 (1991) 624
A sparse data scan circuit for pixel detector chips, Delpierre, P. and J.J. Jaeger A305 (1991) 627
The possibilities for design in ESPRIT-EUROCHIP, De Mey, B. A305 (1991) 628
Further short presentations in the readout circuit design session A305 (1991) 630

VI(c). Prospects for new technologies

Design and processing of double-sided microstrip detectors, Bosisio, L. A305 (1991) 633
Further discussion on processing technology A305 (1991) 634

VI(d). Thoughts in closing

Conclusion A305 (1991) 635

The first level trigger of the OBELIX spectrometer, Bonazzola, G.C., T. Bressani, D. Calvo, P. De Remigis, A. Feliciello, P. Gianotti, S. Gallian, S. Marcello, A. Adamo, I. Massa and S. Serci A306 (1991) 305
Purity measurement in tetramethylsilane, Moreau, F., S. Tisserant, J. Guillon, C. de la Taille and P. Salin . . . A306 (1991) 309
Photodiodes as detectors with high dynamical range for X-ray reflectivity measurements, Storb, Ch., U. Dedek, W. Weber, B. Lengeler and M. Schuster A306 (1991) 544
Reflection losses in polystrene fibres, D'Ambrosio, C., H. Leutz, M. Taufer, T. Shimizu, O. Shinji and J. Sun . A306 (1991) 549
A fast data-bus to buffer-memory interface, Vander Molen, A., M.R. Maier, M. Robertson and G.D. Westfall A307 (1991) 116
Ionization of liquid xenon by ^{241}Am and ^{210}Po alpha particles, Aprile, E., R. Mukherjee and M. Suzuki A307 (1991) 119
Tests of a solid CsI photocathode in a thin multiwire proportional chamber (*Letter to the Editor*), Starič, M., A. Stanovnik and P. Križan A307 (1991) 145
Organic scintillators with large Stokes shifts dissolved in polystyrene, D'Ambrosio, C., H. Leutz, S. Tailhardat, M. Taufer, P. Destruel, D. Puertolas and H. Güsten A307 (1991) 430
Possible applications of the sigma delta digitizer in particle physics, Hallgren, B. A307 (1991) 436
Cluster-finding algorithm suitable for a silicon strip detector readout chip, Lindgren, J. and T. Tuuva A307 (1991) 448
Radiation effects on JFETS, MOSFETS, and bipolar transistors as related to SSC cicuit design, Kennedy, E.J., G.T. Alley, C.L. Britton Jr., P.L. Skubic, B. Gray and A. Wu A307 (1991) 452
Comments on the mechanism of the self-quenching streamer transition (*Letter to the Editor*), Tang Xiaowei . A307 (1991) 580
On the mechanism of self-quenching streamer formation (*Letter to the Editor*), Koori, N., A. Nohtomi, Y. Uozumi, T. Sakae and M. Matoba A307 (1991) 581

Effects of fast neutron radiation on the electrical properties of silicon detectors, Li, Z., W. Chen and H.W. Kraner A308 (1991) 585
Radiation effect on a fast bipolar amplifier, Ikeda, H., N. Ujiie and K. Kawaguchi A308 (1991) 596
Time-variant filters. Part II, Krasnokutsky, R.N., L.L. Kurchaninov, V.V. Tikhonov, N.N. Fedyakin and R.S. Shuvalov A309 (1991) 339
Correlated noise in silicon strip detector readout, Lutz, G. A309 (1991) 545
An improved amplification resistor chain for photomultiplier tubes, Lolos, G.J., G.M. Huber, B. Ramadan, K. Wolbaum and D. Kolybaba A309 (1991) 552

Proceedings of the Second London Conference on Position-Sensitive Detectors (London, UK, September 4–7, 1990)

Section I. Overviews

Position sensitive detectors in X-ray astronomy, Culhane, J.L. A310 (1991) 1
Applications in biology and condensed matter physics, Faruqi, A.R. A310 (1991) 14
Digital radiography – a review of detector design, Harrison, R.M. A310 (1991) 24
Particle physics and its detectors, Miller, D.J. A310 (1991) 35
Light-emitting projection chambers for the study of rare processes in particle physics, Charpak, G. A310 (1991) 47

Section II. Developments in gas and liquid detectors

New approaches to spectroscopy and imaging of ultrasoft-to-hard X-rays, Breskin, A., R. Chechik, V. Dangendorf, S. Majewski, G. Malamud, A. Pansky and D. Vartsky A310 (1991) 57
An ultra-high counting rate 2D proportional counter for synchrotron radiation, Lewis, R., J.S. Worgan, N.S. Fore, F. d'Annunzio, C. Hall and B. Parker A310 (1991) 70
The coated cathode conductive layer chamber, Bouclier, R., J. Gaudaen and F. Sauli A310 (1991) 74
First tests of the gaseous pixel chamber fabricated on a ceramic substrate, Mattern, D., M.C.S. Williams and A. Zichichi A310 (1991) 78
Microstrip proportional counters for X-ray astronomy, Budtz-Jørgensen, C., A. Bahnsen, C. Olesen, M.M. Madsen, P. Jonasson, H.W. Schnopper and A. Oed A310 (1991) 82
Operation of the microstrip gas detector, Hartjes, F., B. Hendriksen, J. Schmitz, H. Schuijlenburg and F. Udo A310 (1991) 88
Substratum and layout parameters for microstrip anodes in gas detectors, Oed, A., P. Geltenbort and C. Budtz-Jørgensen A310 (1991) 95
A large multistep avalanche chamber: description and performance, Iżycki, M., M. Martin, L. Rosselet and N. Solomey A310 (1991) 98
Multiwire chambers with a two-stage gas amplification, Stelzer, H. A310 (1991) 103
BaF_2 scintillators with wire chamber readout for positron emission tomography, Bruyndonckx, P., J. Debruyne, L. Etienne, M. Gruwé, B. Guerard, S. Tavernier and Zhang Shuping A310 (1991) 107
TMAE vapour of CsI layers as photocathodes in a multiwire proportional counter working at atmospheric pressure, Guerard, B., P. Bruyndonckx, S. Tavernier and Zhang Shuping A310 (1991) 116
Development of large-area, air-stable photocathodes for the ultraviolet, Imrie, D.C., A.H. Moghul, K. Wells, G. Charpak and V. Peskov A310 (1991) 122
New photocathodes for fast gaseous detectors, Charpak, G., D. Lemenovski, V. Peskov and D. Scigocki A310 (1991) 128
Accurate three-dimensional simulation of straw chambers using slow, medium and fast gas mixtures, Biagi, S.F. A310 (1991) 133
The primary electron cloud in xenon for X-rays in the 0.1 to 10 keV range, Dias, T.H.V.T., F.P. Santos and C.A.N. Conde A310 (1991) 137
VUV emission and breakdown in parallel-plate chambers, Fonte, P., V. Peskov and F. Sauli A310 (1991) 140
A fast and compact solid radiator RICH counter, Francke, T., F. Piuz, D. Williams, P. Martinengo, R. Ribeiro and M. Suffert A310 (1991) 146
Liquid xenon scintillators, Belli, P., R. Bernabei, S. d'Angelo, A. Incicchitti and D. Prosperi A310 (1991) 150

Section III. Developments in solid state detectors

FOXFET biassed microstrip detectors, Allport, P.P., J.R. Carter, V. Gibson, M.J. Goodrick, J.C. Hill, S.G. Katvars, M.A. Bullough, N.M. Greenwood, A.D. Lucas, C.D. Wilburn, A.A. Carter, T.W. Pritchard, L. Nardini, P. Seller and S.L. Thomas A310 (1991) 155
Development and performance of double sided silicon strip detectors, Batignani, G., L. Bosisio, E. Focardi, F. Forti, M.A. Giorgi, L. Moneta, G. Parrini, G. Tonelli and G. Triggiani A310 (1991) 160

Amorphous silicon pixel arrays, Drewery, J.S., G. Cho, I. Fujieda, T. Jing, S.N. Kaplan, V. Perez-Mendez, D. Wildermuth and R.A. Street A310 (1991) 165
Subnanosecond timing with semiconductor position sensitive detectors, Rijken, H.A., S.S. Klein and M.J.A. de Voigt A310 (1991) 171
Development and tests of double sided microstrip detectors, Saito, K., H. Tajima, M. Nakamura, K. Niwa and K. Yamamoto A310 (1991) 175
A silicon diode array for hard X-ray imaging applications, Mullerworth, S.D. and D. Ramsden A310 (1991) 179
$(PS)^2$: a new semiconductor device for Position-Sensitive Picosecond detection of Single optical photons, Ripamonti, G., S. Cova, M. Ghioni, M. Mastrapasqua and S. Vanoli A310 (1991) 184
Electrostatic simulations for the design of silicon strip detectors and front-end electronics, Sonnenblick, R., N. Cartiglia, B. Hubbard, J. Leslie, H.F.-W. Sadrozinski and T. Schalk A310 (1991) 189
Temperature dependence of the behaviour of silicon drift detectors, Roe, S., T.J. Sumner, G.K. Rochester, G. Hall, L. Evensen and B.S. Avset A310 (1991) 192
Measurement of spatial resolution of a double-sided AC-coupled microstrip detector, Hubbeling, L., M. Turala, P. Weilhammer, R. Brenner, I. Hietanen, J. Lindgren, T. Tuuva, W. Dulinski, D. Husson, A. Lounis, M. Schaeffer, R. Turchetta, J. Chauveau, B.S. Avset and L. Evensen A310 (1991) 197
Practical limitations to the performance of silicon drift chambers imposed by material quality, Avset, B.S., L. Evensen, G. Hall, S. Roe and R. Wheadon A310 (1991) 203
A preliminary study of the response of a gallium arsenide detector to alpha particles, Buttar, C.M., F.H. Combley, I. Dawson, M. Dogru, M. Harrison, G. Hill, Y. Hou and P. Houston A310 (1991) 208
Evaluation of elemental and compound semiconductors for X-ray digital radiography, Bencivelli, W., E. Bertolucci, U. Bottigli, A. Del Guerra, A. Messineo, W.R. Nelson, P. Randaccio, V. Rosso, P. Russo and A. Stefanini A310 (1991) 210
2D detectors for synchrotron X-ray sources, some comparative tests, Hall, C.J., R.A. Lewis, B. Parker and J. Worgan A310 (1991) 215
Mechanism of charge storage and luminescence stimulation in BaFBr:RE phosphors, Harrison, A., L.C. Lane, R.H. Templer and J.M. Seddon A310 (1991) 220
The position sensitivity of a planar array of superheated superconductors, Le Gros, M., G. Meagher, A. Kotlicki, B.G. Turrell and A.K. Drukier A310 (1991) 224
Bulk GaAs ionization detectors for WIMP searches, Spooner, N.J.C., A. Bewick, S.N. Holmes, C.C. Phillips, J.J. Quenby, R.A. Stradling, T.J. Sumner, R.H. Thomas and P.D. Wang A310 (1991) 227
The intrinsic resolution of X-ray imaging plates, Templer, R.H., N.A. Warrender, J.M. Seddon, J.M. Davis and A. Harrison A310 (1991) 232
X-ray and gamma ray luminescence of Ce^{3+} doped BaF_2 crystals, Dorenbos, P., R. Visser, C.W.E. van Eijk, R.W. Hollander and H.W. den Hartog A310 (1991) 236
Soft X-ray response of charge coupled devices, Castelli, C., A. Wells, K. McCarthy and A. Holland A310 (1991) 240
The development of milliKelvin Si bolometers for future X-ray array devices, Zammit, C.C., T.J. Sumner, I.D. Hepburn and P.A.R. Ade A310 (1991) 244
Conductivity cooled microchannel plates, Feller, W.B. A310 (1991) 249
Characteristics of point focusing image intensifiers and hybrid PMs as elements of multichannel particle detectors, Gorin, A.M., G.M. Lyapunov, A.M. Medvedkov, V.I. Rykalin and V.V. Rykalin A310 (1991) 251
Thick microchannel plate detectors for 511 keV gamma rays, McKee, B.T.A., A.G. Duffy, W.B. Feller and A.T. Stewart A310 (1991) 255
Hybrid phototube with Si target, Van Geest, L.K. and K.W.J. Stoop A310 (1991) 261
Effects of soft X-ray irradiation on solid-state imagers, Allinson, N.M., D.W.E. Allsopp, J.A. Quayle and B.G. Magorrian A310 (1991) 267
Thermally stimulated and leakage current analysis of neutron irradiated silicon detectors, Borchi, E., M. Bruzzi and M.S. Mazzoni A310 (1991) 273
Radiation damage of silicon microstrip detectors by 1.5 MeV electrons and synchrotron radiation, Chilingarov, A., I. Dolbnya, S. Kurylo and K. Trützschler A310 (1991) 277
Neutron radiation damage studies of silicon detectors, Edwards, M., G. Hall and S. Sotthibandhu A310 (1991) 283

Section IV. Applications in astronomy

Cosmic ray tracking: a new approach to high-energy γ-astronomy, Feuerstack, M., J. Heintze, P. Lennert, B. Müller, S. Polenz, B. Schmidt, J. Spitzer, B. Stadler, S. Gamp, W. Hofmann, T. Kihm, J. Knöppler, M. Panter, B. Povh and C. Wiedner A310 (1991) 287
The operation of microchannel plates with square pores, Fraser, G.W., J.E. Lees, J.F. Pearson and M.A. Barstow A310 (1991) 292
A novel imaging readout with improved speed and resolution, Lapington, J.S., A.A. Breeveld, M.L. Edgar and M.W. Trow A310 (1991) 299

New techniques in photon counting detectors, Carter, M.K., B.E. Patchett, P.D. Read, N. Waltham and I.G. van Breda A310 (1991) 305
High resolution delay line readouts for microchannel plates, Siegmund, O.H.W., M. Lampton, R. Raffanti and W. Herrick A310 (1991) 311
Investigations of the small-scale flat field response of microchannel plate detectors in the far and extreme ultraviolet, Vallerga, J.V., O.H.W. Siegmund, P.W. Vedder and J.L. Gibson A310 (1991) 317
Design characteristics of a low-energy gamma-ray imager for future space missions, Bird, A.J., A.J. Dean, K.J. Grant, G. Malaguti, S.D. Mullerworth and B.M. Swinyard A310 (1991) 323
Methods for optimizing the performances of position-sensitive CsI(Tl) scintillation bars with photodiode readout, Labanti, C., E. Caroli, E. Rossi and A. Spizzichino A310 (1991) 327
A position-sensitive phoswich, Bird, A.J., He Zhong and D. Ramsden A310 (1991) 332
Monte Carlo simulation of a multiple CsI bar detector for gamma-ray astronomy, Malaguti, G., E. Caroli, A.J. Dean, G. Di Cocco and B.M. Swinyard A310 (1991) 337
A cylindrical surface MWPC for all-round X-ray vision, Herring, J.R.H., G.K. Skinner and O. Emam A310 (1991) 341
Position sensitive detector with wedge-and-wedge readout, Trow, M.W., J.S. Lapington and R.D. Bentley . . . A310 (1991) 344

Section V. Applications in biology and condensed matter science

Millisecond molecular events in dynamic biological systems recorded using fast area detectors: current achievements and future needs, Squire, J.M., J.J. Harford, M.W.K. Chew and J. Barry A310 (1991) 349
A new gaseous imaging detector for the assay of lymphocyte cultures, Bateman, J.E., A. Joyce, S.C. Knight and P. Bedford A310 (1991) 354
Time-resolved X-ray measurements on muscle using a fast multiwire linear detector, Faruqi, A.R., H.E. Huxley, R.M. Simmons and C.C. Bond A310 (1991) 359
New developments and investigations of PSD at JINR, LHE, Zanevsky, Yu.V., G.A. Cheremukhina, S.P. Chernenko, A.B. Ivanov, S.A. Movchan, T. Netusil, L.P. Smykov and S.E. Vasilev A310 (1991) 362
Imaging plate readout system, Hasegawa, K., Y. Yoshioka, S. Ohya and M. Sasano A310 (1991) 366
X-ray energy dependence and uniformity of an imaging plate detector, Ito, M. and Y. Amemiya A310 (1991) 369
Scintillating optical fiber detectors for DNA sequencing, Bendali, M., R. Mastrippolito, Y. Charon, M. Leblanc, B. Martin, H. Tricoire and L. Valentin A310 (1991) 373
A self triggered intensified CCD (STIC), Charon, Y., P. Laniece, M. Bendali, J.M. Gaillard, M. Leblanc, R. Mastrippolito, H. Tricoire and L. Valentin A310 (1991) 379
A silicon detector for DNA-sequencing, Schooneveld, E.M., C.W.E. van Eijk, S.J. Gelsema, R.W. Hollander and S.E. Wouters A310 (1991) 385
The retinal readout array, Litke, A. and M. Meister A310 (1991) 389
Second-generation X-ray television area detectors, Arndt, U.W. A310 (1991) 395
Position-sensitive scintillation detector for hard X-rays, Poulsen, J.M., R. Verbeni and F. Frontera A310 (1991) 398
Application of the improved area detector for continuous small angle X-ray scattering using synchrotron radiation, La Monaca, A., M. Barteri, E. Borghi, A. Congiu-Castellano, G. Cappuccio, M. Beltramini, B. Salvato and J.S. Shah A310 (1991) 403
Quasi-Laue neutron diffractometer, Wilkinson, C. and M.S. Lehmann A310 (1991) 411
Successful use of a linear position-sensitive neutron detector in solid state physics and materials science, Schefer, J., P. Fischer, H. Heer, A. Isacson, M. Koch and R. Thut A310 (1991) 416
The use of an optoelectronic semiconductor for monitoring electron beam position at the Daresbury Synchrotron Radiation Source, Clarke, J.A. A310 (1991) 418

Section VI. Applications in industry and medicine

Nonmedical applications of a positron camera, Hawkesworth, M.R., D.J. Parker, P. Fowles, J.F. Crilly, N.L. Jefferies and G. Jonkers A310 (1991) 423
Mechanics of powder mixing using positron emission tomography, Field, G.M., J. Bridgwater, T.D. Beynon and J.S.M. Botterill A310 (1991) 435
A new position-sensitive nuclear fission counter with a convenient readout method for neutron measurement, Mori, C., T. Haga and A. Uritani A310 (1991) 437
An imaging γ-ray detector with scatter rejection for beam position control in radiotherapy, Badura, A., H.J. Besch, D. Bornstein, J. Dangendorf, A. Sack, A.H. Walenta and H. Schüller A310 (1991) 441
A high precision, high speed X-ray detector for the noninvasive coronary angiography with synchrotron radiation, Besch, H.J., E.J. Bode, R.H. Mank, H.W. Schenk, U. Tafelmeier, A.H. Walenta and H.Z. Xu . . A310 (1991) 446
Digital radiographic scanning installation with multiwire proportional chamber, Babichev, E.A., S.E. Baru, A.G. Khabakhpashev, G.M. Kolachev, G.A. Savinov, L.I. Shekhtman, V.A. Sidorov and A.I. Volobuev . . . A310 (1991) 449
Digital beta autoradiography using silicon microstrip detectors, Sanghera, B., D.M. Raymond, G. Hall and R.J. Ott A310 (1991) 455

Large area amorphous silicon photodiode arrays for radiotherapy and diagnostic imaging, Antonuk, L.E., J. Yorkston, J. Boudry, M.J. Longo and R.A. Street A310 (1991) 460
Optimising the design of a large-area positron camera based on BaF_2 TMAE/MWPC technology, Suckling, J., R.J. Ott, P.K. Marsden, J.E. Bateman, J.F. Connolly and R. Stephenson A310 (1991) 465
An amorphous silicon imaging detector with a phosphor sheet for nondestructive testing and radiography, Hasegawa, K., K. Mochiki, H. Takahashi, T. Inada, Y. Hayakawa, C. Ikeda and R. Katoh A310 (1991) 471
Imaging detector for static and dynamic studies in biological samples, Ljunggren, K. and S.-E. Strand A310 (1991) 475

Section VII. Applications in particle physics

High resolution tracking detector based on capillaries with a liquid scintillator, Denisov, A.G., S.V. Golovkin, A.M. Gorin, E.N. Kozarenko, A.E. Kushnirenko, A.M. Medvedkov, A.I. Peresypkin, S.V. Petrenko, Yu.P. Petukhov, V.I. Rykalin, V.E. Tyukov, V.G. Vasil'chenko and A.A. Zaichenko A310 (1991) 479
Application of a scintillating-fibre detector to the study of short-lived particles, WA84 Collaboration, M. Adinolfi, C. Angelini, F. Antinori, W. Beusch, A. Cardini, D.J. Crennell, M. De Vincenzi, C. Da Via, M. Di Paolo, G. Di Vita, A. Duane, J.-P. Fabre, V. Flaminio, A. Frenkel, T. Gys, K. Harrison, E. Lamanna, D. Lucchesi, G. Martelloti, J.G. McEwen, D.R.O. Morrison, G. Penso, S. Petrera, C.M.A. Roda, A. Sciubba, O. Villalobos-Baillie and D.M. Websdale A310 (1991) 485
Experience with the ALEPH silicon vertex detector, Moser, H.-G. A310 (1991) 490
Beam tests of silicon microstrip detectors with VLSI readout, Ross, W., H. Attias, K. Barger, G. Kalbfleisch, D. Kaplan, P. Karchin, J. Kuehler, M. Lambrecht, E. McCliment, J. Sinnott, P. Skubic and S. Utku A310 (1991) 493
Silicon tracker for the superconducting supercollider, Hylen, J., J. Matthews, A. Weinstein, B. Hubbard, K. O'Shaughnessy, D. Pitzl, A. Seiden, W. Miller, T. Thompson, M. Gamble, C. Baker, G. Dransfield, H. Ziock, R. Reid, K. Woloshun and J. Bradley A310 (1991) 497
The performance of a silicon strip detector for angled tracks, Tajima, H., K. Saito, M. Nakamura and K. Niwa A310 (1991) 504
A fast readout system for scintillation detectors, Steijger, J., E. Kok, E. Kwakkel, J.L. Visschers and A.N.M. Zwart A310 (1991) 509
A scintillator detector system for electron scattering experiments, Steijger, J., Th.S. Bauer, W.H.A. Hesselink, E. Jans, G.J.L. Nooren, A. Pellegrino and A. Zondervan A310 (1991) 513
LADS – large acceptance detector system for pion–nucleus reactions, Backenstoss, G., H. Breuer, H. Döbbeling, M. Furić, P.A. Gram, A. Hoffart, C.H.Q. Ingram, A. Klein, B. Kotliński, G.S. Kyle, K. Michaelian, S. Mukhopadyay, T. Petković, R.P. Redwine, D. Rowntree, R.A. Schumacher, U. Sennhauser, N. Šimičević, F.D. Smit, G. van der Steenhoven, D.R. Tieger, H. Ullrich, M.H. Wang, H.J. Weyer, M. Wildi and K.E. Wilson A310 (1991) 518
The detection of charged particles with a matrix of CsI(Tl) crystals coupled to photodiodes, Schotanus, P., T.M.V. Bootsma, P.F. Box, P. Decowski, E. Gierlik, R. Kamermans, G.J. van Nieuwenhuizen, C.M. Spaltro and C.J.W. Twenhöfel A310 (1991) 523
The diamond shaped cathode pads of the OPAL muon barrel drift chambers, Allison, J., P. Ashton, J.T.M. Baines, R.J. Barlow, J.T.M. Chrin, O.W. Davies, I.P. Duerdoth, P.S. Hinde, J.N. Banks, R.E. Hughes-Jones, G.D. Lafferty, F.K. Loebinger, A.A. Macbeth, M.W. Moss, P.G. Murphy, A. O'Dowd, S.J. Pawley and K. Stephens A310 (1991) 527
Precision reconstruction of charged tracks with simultaneous electron identification in a gaseous detector using transition radiation, Grässler, H., M. Hohlmann, G. Kemmerling, S. Masson, W. Pilgram, W. Struczinski, G.A. Beck, J.B. Dainton, E. Gabathuler, D. Gillespie, P. Mason, S.J. Maxfield, J.M. Morton, D.G. Nunn, G.D. Patel, D.P.C. Sankey and L.A. Womersley A310 (1991) 535
A beam profile monitor using the ionization of residual gas in the beam pipe, Schippers, J.M., H.H. Kiewiet and J. Zijlstra A310 (1991) 540

Section VIII. Readout and data acquisition

Data acquisition for a medical imaging MWPC detector, McKee, B.T.A., P.J. Harvey and J.D. MacPhail A310 (1991) 545
A prototype pixel readout chip for asynchronous detection applications, Raymond, D.M., A.J. Lewis, G. Hall and P.H. Sharp A310 (1991) 552
Radiation-hard front-end electronics for silicon microstrip detectors in ZEUS, Sadrozinski, H.F.-W., J. Dewitt, D.E. Dorfan, B. Hubbard, K. O'Shaughnessy, D. Pitzl, W.A. Rowe, A. Seiden and E. Spencer A310 (1991) 557
CAMDA – a PC-based data acquisition system, Stelzer, H. A310 (1991) 562
The operation of CCD X-ray detectors in a spacecraft environment, Collier, J., K. McCarthy and C.H. Whitford A310 (1991) 565
New developments of an X-ray television area detector, Schierbeek, A.J. and D. Parlevliet A310 (1991) 571
Sintered Halon as a diffuse reflecting liner for light integration boxes, Nutter, S., C.R. Bower, M.W. Gebhard, R.M. Heinz and G. Spiczak A310 (1991) 665

Ion-implanted capacitively coupled silicon strip detectors with integrated polysilicon bias resistors processed on a 100 mm wafer, Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, M. Voutilainen, R. Brenner, M. Andersson, K. Leinonen and H. Ronkainen A310 (1991) 671
Beam test results of an ion-implanted capacitively coupled silicon strip detector processed on a 100 mm silicon wafer, Hietanen, I., J. Lindgren, R. Orava, T. Tuuva, R. Brenner, M. Andersson, K. Leinonen, H. Ronkainen, M. Turala, P. Weilhammer, W. Dulinski, D. Husson, A. Lounis, M. Schaeffer, R. Turchetta and J. Chauveau A310 (1991) 677

Numerical and Data Analysis

FourtyTwo – a two-dimensional analysis program for γ–γ coincidence matrices, Bergström, M. and P. Ekström A301 (1990) 132
Precision response estimation, energy calibration, and unfolding of spectra measured with a large NaI detector, Faddegon, B.A., L. Van der Zwan, D.W.O. Rogers and C.K. Ross A301 (1990) 138
Correcting time-of-flight neutron diffraction data for chopped delayed neutron backgrounds: the action of a drum chopper in a pulsed neutron beam, Carpenter, J.M., D.F.R. Mildner and J.W. Richardson Jr A301 (1990) 305
Transmission probability of a drum chopper in a thermal neutron beam, Carpenter, J.M. and D.F.R. Mildner A301 (1990) 315
A complete inverse Monte Carlo model for energy-dispersive X-ray fluorescence analysis, Mickael, M.W. ... A301 (1990) 523
Generalized dead times, Müller, J.W. A301 (1990) 543
A method to estimate the momentum and the decay proper time of the B mesons from their hadronic and semileptonic decays, Defoix, C. A302 (1991) 119
Maximum likelihood decay curve fits by the simplex method, Gregorich, K.E. A302 (1991) 135
Compacting high spin γ coincidence data, Love, D.J.G. A302 (1991) 143
Deconvolution of positron annihilation γ-ray energy spectra with the maximum entropy principle, Kong, Y. and K.G. Lynn A302 (1991) 145
Correction of experimental fission neutron spectra for fragment detection anisotropy (*Letter to the Editor*), Märten, H. A302 (1991) 390
Statistical uncertainties in live time and detector efficiencies, Yen, S. A302 (1991) 493
Analysis of positron annihilation lifetime data by numerical Laplace inversion: Corrections for source terms and zero-time shift errors, Gregory, R.B. A302 (1991) 496
Comparative investigation of unfolding methods, Anykeyev, V.B., A.A. Spiridonov and V.P. Zhigunov A303 (1991) 350
Effective circle fitting for particle trajectories, Karimäki, V. A305 (1991) 187
Smoothing algorithm for histograms of one or more dimensions, Van Ginneken, A. A305 (1991) 453
Use of new spectral analysis methods in gamma spectra deconvolution, Pinault, J.L. A305 (1991) 462
Dead-time corrections for multiplicity counters (*Letter to the Editor*), Dytlewski, N. A305 (1991) 492
Quantitative analysis of a mixture of beta-emitters, Vapirev, E.I. and A.V. Hristova A307 (1991) 126
Pulse pile-up III: refinements to ruin theory, Wilkinson, D.H. A307 (1991) 458
Pulse pile-up IV: bipolar pulses, Wilkinson, D.H. A307 (1991) 462
Simulation and evaluation of α-spectra obtained with semiconductor detectors, Krupa, R.J. and K. Kurzak .. A307 (1991) 469
Spectrum unfolding and double window methods applied to standardization of ^{14}C and ^{3}H mixtures, Grau Carles, A., M.T. Martin-Casallo and A. Grau Malonda A307 (1991) 484
New approach in assessing the lower detection limit in low level radiation counting, Bernasconi, G., E.D. Greaves and L. Sajo-Bohus A307 (1991) 491
The real-time fitting of radioactive decay curves. 1. Theory, Hartley, B.M. A308 (1991) 599
Measurements of NE-213 response functions to neutrons of energies up to several tens of MeV, Shin, K., Y. Ishii, Y. Uwamino, H. Sakai and S. Numata A308 (1991) 609
Can philosophy be of any use in counting statistics?, Müller, J.W. A309 (1991) 555
Empirical efficiency and volume relationships for HPGe detectors, Owens, A., S.M. Pascarelle, N. Gehrels and B.J. Teegarden A310 (1991) 681

Fusion

A design study of detectors for low-level neutrons, Sekimoto, H., K. Watanabe and D.-W. Lee A302 (1991) 150
Application of an omegatron type high resolution mass spectrometer for the analysis of mixtures of hydrogen and helium isotopes, Engelmann, U., M. Glugla, R.-D. Penzhorn and H.J. Ache A302 (1991) 345
Energy calibration of neutron detectors for the neutron spectrometer TANSY, Drozdowicz, K., M. Hoek and D. Aronsson A306 (1991) 315
The JET neutron time-of-flight spectrometer, Elevant, T., D. Aronsson, P. van Belle, G. Grosshoeg, M. Hoek, M. Olsson and G. Sadler A306 (1991) 331

A compact velocity filter for evaporation residue measurements, Wei, J.X., J.R. Leigh, D.C. Weisser, J.O. Newton, S. Elfstrom, J.P. Lestone, J.X. Chen, D.G. Popescu and D.J. Hinde A306 (1991) 557

Dosimetry, Space Radiation and Medical Applications

Application of a germanium detector as a low flux neutron monitor, Chung, C. and Y.R. Chen A301 (1990) 328
An optical fibre-type silicate glass thermoluminescent detector, Zheng Zheng, Dai Hong-gui, Hu Shang-ze, Liu Jian and Fang Jie A301 (1990) 337
Assessment of the photoelectron number for photomultipliers under conditions of low light intensities, Peak, L.S. and P. Soler A301 (1990) 341
Thermal neutron response of thermoluminescence dosimeters for application to biomedical dosimetry, Matsumoto, T. A301 (1990) 552
Two-dimensional position-sensing PVDF dust detectors for measurement of dust particle trajectory, velocity, and mass, Tuzzolino, A.J. A301 (1990) 558
Detection of primordial antimatter at the 10^{-7} level, Saito, T., Y. Fukada, Y. Hatano, T. Hara, R. Fujii, H. Oda, I. Yamamoto, M. Kusunose and H. Sasaki A301 (1990) 568
Measurement of the angular resolution of an extensive air shower array using a Cherenkov light detector, Walker, A., A.M. Hillas, M.A. Pomerantz, P.T. Reynolds, J.C. Perrett, J.T.P.M. van Stekelenborg, A.A. Watson and T.C. Weekes A301 (1990) 574
An irradiation facility and a beam simulation program for proton radiation therapy, Kanai, T., K. Kawachi and T. Hiraoka A302 (1991) 158
Sensitometry of the response of a new radiochromic film dosimeter to gamma radiation and electron beams, McLaughlin, W.L., Chen Yun-Dong, C.G. Soares, A. Miller, G. Van Dyk and D.F. Lewis A302 (1991) 165
Performance of a liquid xenon ionization chamber irradiated with electrons and gamma-rays, Aprile, E., R. Mukherjee and M. Suzuki A302 (1991) 177
Absolute light yield of plastic scintillators and cerium scintillating glasses under low energy X-ray excitation, Zanella, G. and R. Zannoni A302 (1991) 352
Instrumentation for automated acquisition and analysis of TLD glow curves, Bostock, I.J., T.J. Kennett and J.W. Harvey A302 (1991) 355
Leakage current and capacity variation with temperature in silicon detectors of a space calorimeter, Brunetti, M.T., A. Codino, C. Federico, C. Grimani, M. Menichelli, G. Minelli, E. Rongoni, I. Salvatori, P. Picozza and P. Spillantini A302 (1991) 362
Identification of particles in air showers using tracking chambers and a thin absorber, Gress, J., Y. Lu, A. Anagnostopoulos, J. Kochocki, J. Poirier, S. Mikocki and A. Trzupek A302 (1991) 368
Real-time image parameterization in high energy γ-ray astronomy using transputers, Punch, M. and D.J. Fegan A302 (1991) 508
Detection of ultraviolet Cherenkov light from high energy cosmic ray atmospheric showers: a field test, Bartoli, B., L. Peruzzo, G. Sartori, F. Bedeschi, E. Bertolucci, M. Mariotti, A. Menzione, L. Ristori, A. Scribano, A. Stefanini, F. Zetti, M. Budinich and F. Liello A302 (1991) 515
A multidimensional analysis of the Cherenkov images of air showers induced by very high energy γ-rays and protons, Aharonian, F.A., A.A. Chilingarian, A.K. Konopelko and A.V. Plyasheshnikov A302 (1991) 522
Position-sensitive detector for γ-quanta for PET, Abramov, A.A., E.A. Alekseeva, S.F. Burachas, V.I. Glotov, A.I. Gorelov, A.I. Klimov, V.N. Mayorov, A.V. Martynov, E.A. Meleshko, A.G. Morozov, I.V. Morozov, L.V. Myasoedov, S.V. Oleynik, V.I. Rykalin, V.D. Ryzchikov, V.I. Selivanov, I.V. Sinitsyn, V.D. Torokhov and V.G. Vasil'chenko A302 (1991) 529
Calculation of the time dependence of the pulse shape in a cylindrical proportional counter using the Diethorn assumptions, Habermehl, H.-E., W. Kriegseis and A. Scharmann A303 (1991) 370
Decay time measurements on "pure" CsI scintillators prepared by different methods, Keszthelyi-Lándori, S., I. Földvári, R. Voszka, Z. Fodor and Z. Seres A303 (1991) 374
Underground survival probabilities of high energy muons in the depth range 3100–10 100 hg/cm^2 of standard rock, Bilokon, H., A. Castellina, B. D'Ettorre Piazzoli, G. Mannocchi, P. Picchi and S. Vernetto A303 (1991) 381
A transition radiation detector prototype to measure the energy of muons in cosmic ray laboratories, Bellotti, R., F. Cafagna, M. Calicchio, M. Castellano, G. De Cataldo, C. De Marzo, O. Erriquez, C. Favuzzi, P. Fusco, N. Giglietto, M. Mongelli, E. Nappi, M. Perchiazzi, A. Sacchetti and P. Spinelli A305 (1991) 192
Computer design of a low background germanium detector for astrophysical gamma-ray spectroscopy, Slassi-Sennou, A.S., F. Albernhe and G. Vedrenne A305 (1991) 200
Soft X-ray dosimetry using radiachromic nylon films (*Letter to the Editor*), Guttmann, G.D., B.L. Henke and J.A. Kerner A305 (1991) 216
The use of the reaction ^{9}Be(α, γn)^{12}C to determine the energy scale and the efficiency at low energies of stellar collapse neutrino detectors, Baldini, A., C. Bemporad, F. Cei, G. Giannini, R. Pazzi and M. Grazzi A305 (1991) 475

In vitro bone mineral measurements by coherent scattering in phantoms and the calcaneus, Ndlovu, A.M., T.J. Farrell and C.E. Webber A305 (1991) 484
Measurement of the integral characteristics of radiation fields of medium-energy nucleons by plastic scintillation detectors, Nikolaev, Yu.M., V.B. Polushin and S.V. Serezhnikov A306 (1991) 343
A novel fast-neutron detector for space applications, Feldman, W.C., G.F. Auchampaugh and R.C. Byrd A306 (1991) 350
Performance of a balloon-borne magnet spectrometer for cosmic ray studies, Golden, R.L., C. Grimani, R. Hull, B.L. Kimbell, R. Park, S.A. Stephens, S. Stochaj, G. Basini, E. Bonaviri, F.M. Massimo Brancaccio, M. Ricci, J.F. Ormes, E.S. Seo, R.E. Streitmatter, F. Celletti, P. Spillantini, A. Codino, M. Menichelli, I.Salvatori, F. Bongiorno, V. Bidoli, A. Buccheri, M.P. De Pascale, A. Morselli and P. Picozza A306 (1991) 366
A simple method to introduce K-edge sampling for compounds in the code EGS4 for X-ray element analysis, Del Guerra, A., W.R. Nelson and P. Russo A306 (1991) 378
The resolution of plastic scintillators for cosmic ray H and He isotopes (*Letter to the Editor*), Webber, W.R. . A306 (1991) 403
A method to measure the γ-ray content in VHE cosmic ray showers, Cresti, M., L. Peruzzo, A. Pesci, A. Saggion, G. Sartori, F. Angelini, F. Bedeschi, R. Bellazzini, E. Bertolucci, G. Chiarelli, M. Mariotti, M.M. Massai, A. Menzione, D.A. Smith, A. Stefanini, F. Zetti, A. Scribano, B. Bartoli, M. Budinich, F.Liello, E. Milotti, A.R.P. Biral, J.A. Chinellato, A. Turtelli and M. Luksys A306 (1991) 563
Superheated superconducting granule device: detection of minimum ionizing particles, Czapek, G., U. Moser, K. Pretzl, J. Boniface, L. Gonzales-Mestres, C. Nogues, M.C. Perillo Isaac, D. Perret-Gallix, P. Freund and H.-J. Gebauer A306 (1991) 572
Position resolution of the spark counter with a localized discharge, Frolov, A.R., Yu.N. pestov and V.V. Primachek A307 (1991) 497
High pressure xenon proportional counter up to 10 atm, Sakurai, H., B.D. Ramsey and M.C. Weisskopf A307 (1991) 504
Calibration of detectors for soft gamma-ray astronomy: the Monte Carlo approach applied to the SIGMA telescope, Barret, D. and P. Laurent A307 (1991) 512
Calibration and adjustment of the EGRET coincidence/time-of-flight system, Hunter, S.D. A307 (1991) 520
Parallel-plate avalanche counter for dosimetry in the RIKEN ring cyclotron biology facility (*Letter to the Editor*), Kumagai, H., Y. Yamada, N. Tajima, K. Nakano, F. Yatagai and T. Takahashi A308 (1991) 649
Reduction of degraded events in miniaturized proportional counters, Plaga, R. and T. Kirsten A309 (1991) 560
Simulation of low-energy neutrino interactions in liquid scintillation counters, Antonioli, P., W. Fulgione, P. Galeotti and L. Panaro A309 (1991) 569
Experimental simulation of martian neutron leakage spectra, Drake, D.M., S.A. Wender, R.O. Nelson, D.A. Clark, M. Drosg, W. Amian, J. Brückner and P.A.J. Englert A309 (1991) 575
Physical implementation of an antimask in URA based coded mask systems, Jayanthi, U.B. and J. Braga A310 (1991) 685
Mirrors for imaging gamma ray telescope, Weaverdyck, C., D. Meyer and C. Akerlof A310 (1991) 690
High yield of multiply charged silicon ions by a pulsed sputter Penning source, Sato, Y., H. Ogawa, S. Yamada, T. Yamada, T. Kohno and A. Kitagawa A310 (1991) 693

Synchrotron Radiation Research

Realization of a permanent magnet undulator for the CLIO infrared free electron laser at Orsay, Bourgeois, P., P.J. Carlos, M.E. Couprie, J.L. Fallou, P. Garganne, A. Leprêtre, J. Martin, J.M. Ortéga and C. Ré . . . A301 (1990) 150
Coherent synchrotron radiation at submillimeter and millimeter wavelengths, Shibata, Y., K. Ishi, T. Ohsaka, H. Mishiro, T. Takahashi, M. Ikezawa, Y. Kondo, T. Nakazato, M. Oyamada, N. Niimura, S. Urasawa, R. Kato and Y. Torizuka A301 (1990) 161
X-ray surface back diffraction, Stepanov, S.A., E.A. Kondrashkina and D.V. Novikov A301 (1990) 350
Iodine K-edge dual-energy imaging for subtraction angiography using synchrotron radiation and a 2-dimensional detector, Umetani, K., K. Ueda, T. Takeda, M. Akisada, T. Nakajima and I. Anno A301 (1990) 579
BENT – software for ray-tracing of X-rays on bent oblique-cut crystals: a comment, Sanchez del Rio, M. and F. Cerrina A301 (1990) 589
On optical resolution of beam size measurements by means of synchrotron radiation (*Letter to the Editor*), Ogata, A. A301 (1990) 596
Simulation studies on back bombardment of electrons in rf thermionic guns, Liu, H. A302 (1991) 535
A submicron synchrotron X-ray beam generated by capillary optics, Engström, P., S. Larsson, A. Rindby, A. Buttkewitz, S. Garbe, G. Gaul, A. Knöchel and F. Lechtenberg A302 (1991) 547
Characterisation of a source of X-ray synchrotron radiation, Laundy, D., S. Cummings and P. Pattison A302 (1991) 553
Adaptive crystal optics for high power synchrotron sources, Berman, L.E. and M. Hart A302 (1991) 558

Proceedings of the International Symposium on X-Ray Synchrotron Radiation and Advanced Science and Technology
(Kobe, Japan, 15 and 16 February 1990)

Section I. Introduction

Introductory remarks, Kohra, K. and T. Watanabe A303 (1991) 397

Section II. Progress of large-scale SR facilities

Status of the ESRF at the end of 1990, Haensel, R. A303 (1991) 405
Status of the Advanced Photon Source project, Shenoy, G.K. A303 (1991) 413
8 GeV synchrotron radiation facility project in Japan: JAERI–RIKEN SPring-8 Project, Kamitsubo, H. A303 (1991) 421
Projects of SR sources including research and development for insertion devices in the USSR, Kulipanov, G.N. A303 (1991) 435

Section III. Utilization for biological sciences

X-ray diffraction data collection system for modern protein crystallography with a Weissenberg camera and an imaging plate using synchrotron radiation, Sakabe, N. A303 (1991) 448
Biopolymers and solution X-ray scattering. Is it useful in structural research in biology?, Ueki, T. A303 (1991) 464
Macromolecular structure, function and dynamics by fast crystallography with synchrotron radiation, Clifton, I.J., V. Fulop, A.T. Hadfield, P. Nordlund, I. Andersson and J. Hajdu A303 (1991) 476

Section IV. Utilization for materials science

Application of circularly polarized X-rays to magnetic Compton-scattering experiments, Sakai, N., M. Ito, H. Kawata, T. Iwazumi, M. Ando, N. Shiotani, F. Itoh, Y. Sakurai and S. Nanao A303 (1991) 488
Nuclear Bragg diffraction using synchrotron radiation. A new method for hyperfine spectroscopy, Rüffer, R., E. Gerdau, M. Grote, R. Hollatz, R. Röhlsberger, H.D. Rüter and W. Sturhahn A303 (1991) 495
Materials science with SR using X-ray imaging – spatial resolution/source size, Kuriyama, M. A303 (1991) 503
High-T_c superconductor studied with synchrotron radiation, Takahashi, T. A303 (1991) 515

Section V. Utilization for industrial research

Three-dimensional microfabrication using synchrotron radiation, Ehrfeld, W. and D. Münchmeyer A303 (1991) 523
Characterization of semiconductor interfaces by X-ray diffraction, Matsui, J., J. Mizuki, K. Akimoto and I. Hirosawa A303 (1991) 532
Ultratrace analysis by synchrotron radiation, Gohshi, Y. A303 (1991) 544

Proceedings of the Twelfth International Free Electron Laser Conference (Paris, France, September 17–21, 1990)

Section I. Linac FEL experiments

First operation of a free electron laser using a ring resonator, Dowell, D.H., M.L. Laucks, A.R. Lowrey, M. Bemes, A. Currie, P. Johnson, K. McCrary, L. Milliman, C. Lancaster, J. Adamski, D. Pistoresi, D.R. Shoffstall, M. Bentz, R. Burns, J. Guha, R. Hudyma, K. Sun, W. Tomita, W. Mower, S. Bender, J. Goldstein, A.H. Lumpkin, B. McVey, R. Tokar and D. Shemwell A304 (1991) 1
Bandwidth narrowing of the UCSB FEL by injection seeding with a cw laser, Amir, A., J.F. Knox-Seith and M. Warden A304 (1991) 12
Recent results on the Cherenkov FEL at the ENEA submillimeter FEL facility, Ciocci, F., A. Doria, G.P. Gallerano, M.F. Kimmitt, G. Messina, A. Renieri and J.E. Walsh A304 (1991) 17
Observation of anomalous power loss in a FEL, Frisch, J.C., R.L. Swent and T.I. Smith A304 (1991) 21
Optical measurements on the Boeing free electron laser ring resonator experiment, Laucks, M.L., D.H. Dowell, A.R. Lowrey, M. Bemes, A. Currie, P. Johnson, K. McCrary, J. Adamski, D. Pistoresi, D.R. Shoffstall, M. Bentz, R. Burns, R. Hudyma, K. Sun, W. Mower, S. Bender, J. Goldstein, A. Lumpkin, B. McVey, R. Tokar and D. Shemwell A304 (1991) 25
The next generation of rf FEL (free electron laser) diagnostics: synchroscan and dual-sweep streak camera techniques, Lumpkin, A.H. A304 (1991) 31

Section II. Storage ring FEL experiments

Chaotic behaviour of the storage ring free electron laser, Billardon, M. A304 (1991) 37
Storage ring FELs and the prospects, Litvinenko, V.N. A304 (1991) 40
The results of lasing linewidth narrowing on the VEPP-3 storage ring optical klystron, Couprie, M.E., N.G. Gavrilov, G.N. Kulipanov, V.N. Litvinenko, I.V. Pinaev, V.M. Popik, A.N. Skrinsky and N.A. Vinokurov . A304 (1991) 47
Study of the transverse modes on the Super-ACO FEL, Couprie, M.E., M. Velghe, R. Prazeres and M. Billardon A304 (1991) 53

Mutual influence of the coherent synchrotron oscillations of the Super-ACO positron beam on the FEL, Couprie, M.E., M. Velghe, D. Jaroszynski and M. Billardon A304 (1991) 58
Observation of mutual coherence of spontaneous radiation from two undulators separated by an achromatic bend, Gavrilov, N.G., G.N. Kulipanov, V.N. Litvinenko, I.V. Pinayev, V.M. Popik, I.G. Silvestrov, A.N. Skrinsky, A.S. Sokolov, N.A. Vinokurov and P.D. Vobly A304 (1991) 63
Lasing spectrum and temporal structure in storage ring FELs: theory and experiment, Litvinenko, V.N. and N.A. Vinokurov A304 (1991) 66
Coherent harmonic generation in VUV with the optical klystron on the storage ring Super-ACO, Prazeres, R., P. Guyot-Sionnest, J.M. Ortega, D. Jaroszynski, M. Billardon, M.E. Couprie, M. Velghe and Y. Petroff . . A304 (1991) 72
Measurement of photon statistics of wiggler radiation from an electron storage ring, Tanabe, T., M.C. Teich, T.C. Marshall and J. Galayda A304 (1991) 77
Harmonic generation at the MAX-lab undulator. Report of the first results, Werin, S., M. Eriksson, J. Larsson, A. Persson and S. Svanberg A304 (1991) 81
Free electron laser experiment at ETL, Yamada, K., T. Yamazaki, S. Sugiyama, T. Tomimasu, T. Mikado, M. Chiwaki, R. Suzuki and H. Ohgaki A304 (1991) 86

Section III. Collective regime (Raman) experiments

Distributed feedback and gas-loaded FELs driven by induction linac SHVS, Mima, K., T. Akiba, K. Imasaki, N. Ohigashi, T. Tsunawaki, T. Taguchi, S. Kuruma, S. Nakai and C. Yamanaka A304 (1991) 93
Optical spikes in a free electron laser: theory and experiment, Bhattacharjee, A., S.Y. Cai, J.W. Dodd and T.C. Marshall A304 (1991) 99
Generation of intense radiation in the 0.7 to 6 mm interval by means of REB, Bogachenkov, V.A., V.A. Papadichev, I.V. Sinilshikova and O.A. Smith A304 (1991) 104
Observations of periodic intensity bursts from a free electron laser oscillator, Jerby, E., G. Bekefi and J.S. Wurtele A304 (1991) 107
Experimental studies on various characteristics of a waveguide mode free electron laser using cold relativistic electron beams, Kawamura, Y., B.C. Lee, M. Kawai and K. Toyoda A304 (1991) 111
Experiments of a Raman free electron laser with distributed feedback cavity, Wang, M.C., Zhijiang Wang, Jizhong Chen, Zaitong Lu and Lifen Zhang A304 (1991) 116
Operation of a long-pulse CARM oscillator, Pendergast, K.D., B.G. Danly and R.J. Temkin A304 (1991) 121
Improved amplifier performance of the NRL ubitron, Pershing, D.E., R.H. Jackson, H. Bluem and H.P. Freund A304 (1991) 127
Short submillimeter operation of the Planar Orotron, Price, E.J., J.E. Walsh and M.F. Kimmitt A304 (1991) 133
Long-pulse experiment of circular free electron laser, Sekita, H., T. Mizuno, H. Ohta, M. Kitora, Y. Naito and H. Saito A304 (1991) 137
JAERI millimeter wave FEL experiments with a focusing wiggler, Shiho, M., K. Sakamoto, S. Maebara, A. Watanabe, Y. Kishimoto, H. Oda, S. Kawasaki, T. Nagashima and H. Maeda A304 (1991) 141

Section IV. New proposals and status reports

Stability and performance of CDRL-FEL, Kim, K.-J. and M. Xie A304 (1991) 146
Saturnus: the UCLA high-gain infrared FEL project, Aghamir, F., W.A. Barletta, D.B. Cline, J.W. Dodd, S.C. Hartman, T.C. Katsouleas, J. Kolonko, S. Park, C. Pellegrini, J.-C. Terrien, J.G. Davis, C.J. Joshi, N.C. Luhmann, D.B. McDermott, S.N. Ivanchenkov, Yu.Yu. Lachin and A.A. Varfolomeev A304 (1991) 155
Status of the Darmstadt near-infrared free electron laser project, Alrutz-Ziemssen, K., J. Auerhammer, H. Genz, H.-D. Gräf, A. Richter, J. Töpper and H. Weise A304 (1991) 159
Update on FELIX, van Amersfoort, P.W., R.J. Bakker, J.B. Bekkers, R.W.B. Best, R. van Buuren, P.F.M. Delmee, B. Faatz, C.A.J. van der Geer, P. Hellingman, D.A. Jaroszynski, P. Manintveld, W.J. Mastop, B.J.H. Meddens, A.F.G. van der Meer, J.P. Nijman, D. Oepts, J. Pluygers, Wang Wei and M.J. van der Wiel A304 (1991) 163
An electrostatic free electron maser for fusion: design considerations, van Amersfoort, P.W., W.H. Urbanus, A.G.A. Verhoeven, A. Verheul, A.B. Sterk, A.M. van Ingen and M.J. van der Wiel A304 (1991) 168
Commissioning the FELIX bunching system, Bakker, R.J., C.A.J. van der Geer, A.F.G. van der Meer, P.W. van Amersfoort and G. Saxon A304 (1991) 173
Project of a free electron laser in the far infrared using a Rhodotron accelerator, Bassaler, J.M. and C. Etievant A304 (1991) 177
Proposed UV FEL user facility at BNL, Ben-Zvi, I., L.F. Di Mauro, S. Krinsky, M.G. White and L.H. Yu . . . A304 (1991) 181
A high-average-power tapered FEL amplifier at submillimeter frequencies using sheet electron beams and short-period wigglers, Bidwell, S.W., D.J. Radack, T.M. Antonsen Jr., J.H. Booske, Y. Carmel, W.W. Destler, V.L. Granatstein, B. Levush, P.E. Latham, I.D. Mayergoyz and Z.X. Zhang A304 (1991) 187
A microtron accelerator for a free electron laser, Botman, J.I.M., J.L. Delhez, G.A. Webers, H.L. Hagedoorn, W.J.G.M. Kleeven, C.J. Timmermans, G.J. Ernst, J.W.J. Verschuur, W.J. Witteman and E.H. Haselhoff . . A304 (1991) 192

First FEL experiment in the millimeter range at CESTA. The ONDINE experiment, Bottollier-Curtet, H., J. Gardelle, J. Bardy, C. Bonnafond, A. Devin, G. Germain, J. Labrouche, J. Launspach, P. Le Taillandier and J. de Mascureau A304 (1991) 197
A 250 GHz CARM oscillator experiment driven by an induction linac, Caplan, M., B. Kulke, D.G. Bubp, D. McDermott and N. Luhmann A304 (1991) 200
Status report of the IR FEL project on the superconducting linac LISA at LNF-Frascati, Castellano, M., A. Ghigo, P. Patteri, C. Sanelli, M. Serio, F. Tazzioli, N. Cavallo, F. Cevenini, F. Ciocci, G. Dattoli, A. Dipace, G.P. Gallerano, A. Renieri, E. Sabia and A. Torre A304 (1991) 204
Status report on the NIST–NRL free electron laser, Debenham, P.H., R.L. Ayres, W.A. Cassatt, B.C. Johnson, R.G. Johnson, E.R. Lindstrom, P.J. Liposky, A.B. Marella, D.L. Mohr, J.K. Whittaker, N.D. Wilkin, M.A.D. Wilson, C.M. Tang, P. Sprangle and S. Penner A304 (1991) 208
The 433 MHz rf generator for the ELSA-FEL experiment, Dei-Cas, R., A. Bensussan, M. Simon, G. Faillon, C. Tremaud, R.B. Boux, B. Besson, J. Bonnier, B. Charmasson and J. Guidevaux A304 (1991) 212
Overview of the FEL activities at Bruyères-le-Châtel, Dei-Cas, R., P. Balleyguier, M.A. Beuve, A. Binet, J.P. Blésés, A. Bloquet, R. Bois, Cl. Bonetti, J. Brisset, J.P. De Brion, J. Di Crescenzo, J.M. Dolique, R. Faujour, P. Fourdin, J. Fréhaut, M. Guilloud, G. Haouat, D. Iracane, R. Joly, S. Joly, J.P. Laget, Cl. Laspalles, H. Leboutet, J.G. Marmouget, D. Masseron, P. Michaud, Y. De Penquer, Y. Pranal, S. Seguin, S. Striby, F. Schumann and J. Vouillarmet A304 (1991) 215
A compact cw free electron laser, Elias, L.R., I. Kimel, D. Larson, D. Anderson, M. Tecimer and Zhong Zhefu A304 (1991) 219
Performance of the Los Alamos HIBAF accelerator at 17 MeV, Feldman, D.W., S.C. Bender, B.E. Carlsten, J. Early, R.B. Feldman, W.J.D. Johnson, A.H. Lumpkin, P.G. O'Shea, W.E. Stein, R.L. Sheffield and K. McKenna A304 (1991) 224
Project of a race-track microtron-recuperator for a free electron laser, Gavrilov, N.G., E.I. Gorniker, G.N. Kulipanov, I.V. Kuptsov, G.Ya. Kurkin, A.D. Oreshkov, V.M. Petrov, I.V. Pinayev, I.K. Sedlyarov, A.N. Skrinsky, A.S. Sokolov, V.G. Veshcherevich, N.A. Vinokurov and P.D. Vobly A304 (1991) 228
Status of the free electron laser experiment at UT/NERL, Hajima, R., H. Ohashi, S. Kondo and M. Akiyama A304 (1991) 230
Design overview of a highly stable infrared free electron laser at LBL, Kim, K.-J., M. Berz, S. Chattopadhyay, J. Edighoffer, R. Gough, C. Kim, A.H. Kung, W. Stein and M. Xie A304 (1991) 233
Low-voltage ubitrons for industrial purposes, Kong, G., J. Lucas and R.A. Stuart A304 (1991) 238
High brightness injector for a high power superconducting rf FEL, Lazar, N.H., H. Boehmer, S. Fornaca, B. Hauss, B. Quon, N. Roy, S. Talmadge, H. Thompson Jr. and G. Neil A304 (1991) 243
Electrostatic FEL frequency stabilization: optical design and amplifying medium, Moret-Bailly, J. and M. Roche A304 (1991) 248
The ARES linac as a possible VUV FEL driver, Pagani, C., L. Serafini, S. Tazzari and M. Ferrario A304 (1991) 251
SIRIUS FEL project, Roche, M. and J. Moret-Bailly A304 (1991) 255
A racetrack microtron for free electron laser use, Röjsel, P. A304 (1991) 258
Use of a FEL as a buncher for a TBA scheme, Shay, H.D., R.A. Jong, R.D. Ryne, S.S. Yu and E.T. Scharlemann A304 (1991) 262
Status report of the Twente University Raman free electron laser, van der Slot, P.J.M., C. Penman and W.J. Witteman A304 (1991) 268
Applications of wavelength agility in an FEL facility, Swent, R.L., K.W. Berryman, H.A. Schwettman and T.I. Smith A304 (1991) 272
New Japanese FEL program at Osaka, Yamanaka, C. A304 (1991) 276
Rf-driven FEL activity at CIAE, Yang, T.L., X.L. Zhai, W.Z. Zhou, Z.H. Song, D.Z. Cao, L.H. Pan, S.F. Bu, X.Z. Shi and C. Liu A304 (1991) 280

Section V. Accelerator technology

Rf guns: bright injectors for FEL, Travier, C. A304 (1991) 285
New PIC codes on unstructured meshes applied to the simulation of a photocathode injector, Adolf, A., P. Degond, F. Hermeline, J. Marilleau, P.A. Raviart and J. Segré A304 (1991) 297
The high current injection for the Darmstadt near infrared free electron laser, Alrutz-Ziemssen, K., J. Auerhammer, H. Genz, H.-D. Gräf, A. Richter, J. Töpper and H. Weise A304 (1991) 300
Layout of the ELSA U-turn, Aucouturier, J., J.P. De Brion and H. Leboutet A304 (1991) 305
Production of high-brightness electron beams for the ELSA-FEL, Balleyguier, P., J.P. Blésés, A. Bloquet, C. Bonetti, J.P. De Brion, J. Brisset, R. Dei-Cas, J. Di Crescenzo, P. Fourdin, G. Haouat, R. Joly, S. Joly, C. Laspalles, J.P. Laget, H. Leboutet, F. Schumann, S. Striby and J. Vouillarmet A304 (1991) 308
Design and initial operation of LELIA induction accelerator, Bardy, J., P. Eyharts, P. Anthouard, P. Eyl, J. Labrouche, J. Launspach, P. Le Taillandier, J. de Mascureau and M. Thevenot A304 (1991) 311
The ELSA control system, Bois, R., P. Clouet, M. Guilloud, J.P. Laget, D. Masseron, P. Michaud, D. Munch, Y. De Penquer and J. Trarieux A304 (1991) 315

Beam dynamics for FEL injection of the linac preinjector of ELETTRA, Bourat, C. A304 (1991) 317
Commissioning the CLIO injection system, Bourdon, J.C., R. Belbeoch, M. Bernard, P. Brunet, B. Leblond, M. Omeich, E. Plouviez, J. Rodier, R. Chaput, M. Bergher and J.M. Ortega A304 (1991) 322
Cumulative beam breakup of the ground-based free electron laser, Chan, K.C.D. and G. Spalek A304 (1991) 329
Simulation of the ELSA photo-injector with the TBCI-SF code, De Brion, J.P., S. Joly and F. Schumann A304 (1991) 333
Improving electron beam quality of the Boeing free electron laser, Dowell, D.H., M.L. Laucks, A.R. Lowrey, M. Bemes, A. Currie, P. Johnson, K. McCrary, J. Adamski, D.R. Shoffstall, A.H. Lumpkin and R.L. Tokar A304 (1991) 336
Space-charge effects in magnetic phase compressors, Fréhaut, J. A304 (1991) 342
Emittance correction of photocathode gun, Gallardo, J.C. and R.B. Palmer A304 (1991) 345
Theoretical investigation of optimizing the microwave electron gun, Gao, J. A304 (1991) 348
Nonlinear repairing in phase space. Emittance recovering techniques, Gao, J. A304 (1991) 353
Rf gun development at IHEP for BFELP, Gao, J. and J.L. Xie A304 (1991) 357
Robust control of accelerators, Johnson, W.J.D. and C.T. Abdallah A304 (1991) 364
High power induction linac for FEL applications at CESTA, Launspach, J., J.M. Angles, M. Angles, P. Anthouard, J. Bardy, C. Bonnafond, H. Bottollier-Curtet, A. Devin, P. Eyharts, P. Eyl, J. Gardelle, G. Germain, P. Grua, J. Labrouche, J. de Mascureau, P. Le Taillandier, W. Stadnikoff and M. Thevenot A304 (1991) 368
Simulation of an rf thermionic gun, Liu, H. A304 (1991) 371
First measurements of electron-beam transit times and micropulse elongation in a photoelectric injector at the high-brightness accelerator FEL (HIBAF), Lumpkin, A.H., B.E. Carlsten and R.B. Feldman A304 (1991) 374
Initial observations of high-charge, low-emittance electron beams at HIBAF, Lumpkin, A.H., R.B. Feldman, B.E. Carlsten, D.W. Feldman, R.L. Sheffield, W.E. Stein, W.J. Johnson, L.E. Thode, S.C. Bender and G.E. Busch A304 (1991) 379
Optimization of a thermionic microwave electron gun, McKee, C.B. and J.M.J. Madey A304 (1991) 386
A binary Al/Li alloy as a new material for the realization of high-intensity pulsed photocathodes, Septier, A., F. Sabary, J.C. Dudek, H. Bergeret and B. Leblond A304 (1991) 392
Beam quality simulation of the Boeing photoinjector accelerator for the MCTD project, Takeda, H., K. Davis and L. Delo A304 (1991) 396
Wakefield effects of auxiliary beamline elements, Wallace, R. and K.C.D. Chan A304 (1991) 400

Section VI. 1D FEL theory

A quantum optics approach to the FEL, Elgin, J.N. A304 (1991) 406
Microscopic gain mechanism in the high-gain free electron laser, McNeil, B.W.J., P. Pierini and R. Bonifacio . A304 (1991) 411
Theoretical and experimental aspects of a waveguide FEL, Bartolini, R., A. Doria, G.P. Gallerano and A. Renieri A304 (1991) 417
X-ray free electron laser in a crystal as distributed feedback resonator, Baryshevsky, V.G., I.Ya. Dubovskaya and A.V. Zege A304 (1991) 421
Free electron lasers with transverse synchronizing magnetic fields, Bazylev, V.A. and A.V. Tulupov A304 (1991) 427
Hot electron beams for FELs, Bazylev, V.A. and V.V. Goloviznin A304 (1991) 432
The effects of electron beam quality on the free electron laser mechanism, Blau, J. and W.B. Colson A304 (1991) 436
The self-consistent pendulum picture of the free electron laser revised and the instability threshold for exponential gain, Casagrande, F., R. Bonifacio and A. Airoldi A304 (1991) 439
Mechanisms for the production of harmonics in free electron lasers, Elgin, J.N. and C. Penman A304 (1991) 444
High-order mode domination in the instability spectrum of relativistic electron beam in a dielectric-filled waveguide, Fomenko, G.P. and A.S. Shlapakovskii A304 (1991) 447
Design requirements and calculated performance of an XUV FEL oscillator operating on a higher harmonic, Goldstein, J.C., R.W. Warren and B.E. Newnam A304 (1991) 449
Macroparticle model of the high-current, strong-field free electron laser, Kiel, D.H. and W.B. Colson A304 (1991) 453
The evolution and limits of spectral bandwidth in free electron lasers, Kim, K.-J. A304 (1991) 458
High gain distributed optical klystron, Litvinenko, V.N. A304 (1991) 463
Chaotic electron trajectories in a free electron laser, Michel, L., A. Bourdier and J.M. Buzzi A304 (1991) 465
Some thoughts on high-gain optical klystrons, Nölle, D. A304 (1991) 472
Studies on an accelerator by an inverse free electron laser process, Ohigashi, N., K. Mima, K. Ohi, S. Kuruma, T. Akiba, K. Imasaki, Y. Tsunawaki, T. Taguchi, C. Yamanaka and S. Nakai A304 (1991) 476
Gain analysis of a strong-pump FEL operating at the fundamental and high harmonics, Pinhasi, Y. and A. Gover A304 (1991) 481
Simulation of a standing-wave free electron laser, Sharp, W.M., A.M. Sessler, D.H. Whittum and J.S. Wurtele A304 (1991) 487
Chaotic behavior of electron orbits in a free electron laser near magnetoresonance, Spindler, G. and G. Renz A304 (1991) 492
Theoretical analysis of radiation pulses in the NIST/NRL FEL oscillator, Tang, C.M. and B. Hafizi A304 (1991) 497
Differential equations for the energy of a single particle in a helicoidal wiggler with invariant guiding field and travelling plasma wave (non-self-consistent Raman regime), Valat, J. A304 (1991) 502
Harmonic generation with an external laser beam in a dual undulator, Varfolomeev, A.A. and M.M. Pitatelev A304 (1991) 507

Lasing on higher harmonics, Warren, R.W. A304 (1991) 512
Universal scaling function for FEL gain, Yu, L.H., S. Krinsky and R.L. Gluckstern A304 (1991) 516
Advantages of the "kinetic" amplification regime in a free electron laser with optical undulator, Zege, A.V. . A304 (1991) 520
Non-detrapping variable parameter wiggler of free electron lasers, Zhang, Lingyi and Dingchang Xian A304 (1991) 522

Section VII. 3D FEL theory

Recent advances in free electron laser theory, Tang, C.M. A304 (1991) 526
Gauss–Laguerre modes in FELIX, Best, R.W.B. and B. Faatz A304 (1991) 532
Steady-state and superradiant many-mode dynamics in a high-gain amplifier with a waveguide, Casagrande, F. and G. Cerchioni A304 (1991) 536
FEL time-evolution operator, Dattoli, G., L. Giannessi, L. Mezi, A. Torre and R. Caloi A304 (1991) 541
Small signal gain based on analytic models of thin intense electron beams, Elliott, C.J., B. McVey and M. Schmitt A304 (1991) 545
Dynamic behaviour of the EM field in free electron lasers, Faatz, B., R.W.B. Best and P.W. van Amersfoort . A304 (1991) 551
Nonlinear theory of slow-wave ubitrons/free electron lasers, Freund, H.P. A304 (1991) 555
To the theory of induced scattering of electromagnetic waves by an electron beam in a regular waveguide, Karbushev, N.I. and A.D. Shatkus A304 (1991) 559
Mode competition and long time recurrence in low gain FEL oscillators, Riyopoulos, S. A304 (1991) 564
Three-dimensional simulations of harmonic radiation and harmonic lasing, Schmitt, M.J. and B.D. McVey . . A304 (1991) 571
Linear theory of optical guiding in a free electron laser with an annular electron beam, Shatkus, A.D. A304 (1991) 583

Section VIII. Numerical simulations

INEX simulations of experimentally measured accelerator performance at the Los Alamos HIBAF facility, Carlsten, B.E., L.M. Young, M.J. Browman, H. Takeda, D.M. Feldman, P.G. O'Shea and A.H. Lumpkin . A304 (1991) 587
CARM amplifier theory and simulation, Chen, C., B.G. Danly, J.A. Davies, W.L. Menninger, J.S. Wurtele and G. Zhang A304 (1991) 593
Comparing simulations and experimental observations of the trapped-particle instability in the Stanford FEL, Cord, G.A., W.B. Colson and J. Frisch A304 (1991) 601
Modeling and performance of a single-electron-beam two-FEL system, Cover, R.A. A304 (1991) 607
High efficiency operation of Cherenkov masers, Freund, H.P. and A.K. Ganguly A304 (1991) 612
Electron phase-space trajectories in a linearly polarized free electron laser, Gillingham, D.R. and W.B. Colson A304 (1991) 617
INEX modeling of the Boeing ring optical resonator free electron laser, Goldstein, J.C., R.L. Tokar, B.D. McVey, C.J. Elliott, D.H. Dowell, M.L. Laucks and A.R. Lowrey A304 (1991) 622
A mechanism for the spectral broadening of a Compton free electron laser, Iracane, D. and J.L. Ferrer A304 (1991) 626
Asymptotic behaviour of a Compton free electron laser, Iracane, D. and J.L. Ferrer A304 (1991) 629
Origin of parasitic wave in a Raman-regime free electron laser, Kishimoto, Y., H. Oda and M. Shiho A304 (1991) 632
Simulation of higher-harmonics generation in a FEL, Kuruma, S., K. Mima, K. Ohi, S. Nakai and C. Yamanaka A304 (1991) 638
A simple model of the LLNL ELF FEL amplifier, Park, J.-H. and W.B. Colson A304 (1991) 641
Multidimensional simulations of the ELFA superradiant free electron laser, Pierini, P., W.M. Fawley and W.M. Sharp A304 (1991) 644
Design and experiment of a far-infrared FEL, Sato, S., Y. Yasojima, S. Nakata, C. Tsukishima, T. Hifumi and S. Okuda A304 (1991) 649
Subharmonic optical klystron: SHOK, Serafini, L., M. Ferrario and C. Pagani A304 (1991) 654
The effect of dispersion on mode competition in FEL oscillators, Stanford, E.R. and T.M. Antonsen Jr. A304 (1991) 659
Computer simulation of superradiant free electron lasers in highly dispersive waveguides, Sternbach, E.J. . . . A304 (1991) 663

Section IX. Unconventional FEL schemes

Self-mode-locked oscillator–amplifier FEL configuration, Bamford, D.J. and D.A.G. Deacon A304 (1991) 667
Free electron laser in ultraviolet and X-ray regions, Bazylev, V.A. A304 (1991) 671
A scheme for XUV generation based on a laser-pumped FEL with an axial electric field, Cohen, M., A. Gover and S. Ruschin A304 (1991) 673
The semiconductor Cherenkov laser, Fisch, E.E., J.E. Walsh, A.K. Henning and M.F. Kimmitt A304 (1991) 679
Inverse FEL accelerator: experiment and theory, Marshall, T.C., A. Bhattacharjee, S.Y. Cai, Y.P. Chou and I. Wernick A304 (1991) 683
Evaluation of compact FELs operating at 0.4 micron wavelength, Souza, R., W.B. Colson, R.W. Warren and J.C. Goldstein A304 (1991) 687
Enhanced emission of high frequency radiation from an electron beam in an undulator by backward wave resonance, Sternbach, E.J. and H. Ghalila A304 (1991) 691

Compound wiggler to lase on a selected harmonic, Warren, R.W. and N. Piovella A304 (1991) 696
Novel free electron laser named photon storage ring, Yamada, H. A304 (1991) 700

Section X. Undulators and micro-undulators

Advanced concepts in mechanical design and computerized control system for a hybrid permanent magnet undulator, Barbagelata, L., M. Grattarola, A. Matrone, G. Ottonello, F. Rosatelli, F. Ciocci, G. Gallerano, A. Renieri and E. Sabia A304 (1991) 703
A tunable wiggler prototype for the ELSA experiment, Binet, A., R. Dei-Cas, D. Iracane, J.G. Marmouget and Y. Pranal A304 (1991) 707
The POOPO undulator for the CLIO experiment, Couprie, M.E., P. Bourgeois, P.J. Carlos, J.L. Fallou, P. Garganne, A. Leprêtre, J. Martin and J.M. Ortega A304 (1991) 710
Undulator fields and electron trajectories at the end of a helical undulator, Craun, D. and W.B. Colson A304 (1991) 714
A new powerful flexible linear/helical undulator for soft X-rays, Elleaume, P. and J. Chavanne A304 (1991) 719
Field error lottery, Elliott, C.J., B.D. McVey and D.C. Quimby A304 (1991) 725
Enhanced FEL performance from superconducting undulators, Gottschalk, S.C., A.L. Pindroh, D.C. Quimby, K.E. Robinson and J.M. Slater A304 (1991) 732
Crossed-field wiggler, von Laven, S. A304 (1991) 738
Analytical formulae for magnetic fields in undulators, Papadichev, V.A. A304 (1991) 743
Electron trajectories in undulators, Papadichev, V.A. A304 (1991) 749
Focusing permanent magnet undulator, Tsunawaki, Y., N. Ohigashi, K. Mima, T. Akiba, S. Kuruma, K. Imasaki, S. Nakai and L.R. Elias A304 (1991) 753
Performance model for FEL wigglers, Vetrovec, J. A304 (1991) 759
Design considerations for pulsed microwigglers, Warren, R.W. A304 (1991) 765
The undulator for the Beijing free electron laser project, Xie Jialin, Zhuang Jiejia, Mao Chensheng, Zhong Yuanyuan, Li Yonggui, Ou Yangqun, Zhao Chunnong, Huang Min, Li Chengze and Wu Qingwu A304 (1991) 770

Section XI. FEL optics

Optical cavities for free electron lasers, Benson, S. A304 (1991) 773
Numerical studies of resonators with on-axis holes in mirrors for FEL application, Keselbrener, M., S. Ruschin, B. Lissak and A. Gover A304 (1991) 782
Method of operative control of the radius of curvature and reflection losses of optical cavity mirrors, Pinayev, I.V., A.S. Sokolov and N.A. Vinokurov A304 (1991) 786
Advanced free electron laser resonator, Shih, C.-C. and S.-M. Shih A304 (1991) 788
Hole coupling resonator for free electron lasers, Xie, M. and K.-J. Kim A304 (1991) 792

Section XII. FEL applications

Picosecond FEL experiments on condensed matter systems, Fayer, M.D. A304 (1991) 797
Comparisons between the FEL and the conventional laser, Pantell, R.H. A304 (1991) 798
Plasma heating by FEL devices, Renieri, A. A304 (1991) 804
Facilities for using the FEL as a research tool, Smith, T.I. and H.A. Schwettman A304 (1991) 812

Section XIII. Panels

Panel summary on the ultimate FEL bandwidth, Colson, W.B., P. Elleaume, V.N. Litvinenko, K.-J. Kim, G. Ramian, T.M. Antonsen, A. Gover, D. Oepts, A.H. Lumpkin and S. Benson A304 (1991) 822
Panel discussion on Raman FELs, Doucet, H.J. A304 (1991) 825
Report on the theoretical panel, Gover, A. and D. Iracane A304 (1991) 827
Report of panel on compact FELs, Warren, R. A304 (1991) 828

Study of dynamically bent crystals for X-ray focusing optics, Krisch, M., A. Freund, G. Marot and L. Zhang . . A305 (1991) 208
Liquid nitrogen cooling of monochromator crystals exposed to intense synchrotron radiation, Joksch, S., G. Marot, A. Freund and M. Krisch A306 (1991) 386
Adjustable phase insertion devices as X-ray sources, Carr, R. A306 (1991) 391
Horizontal divergence of synchrotron radiation, which is accepted by a double crystal $(n, -n)$ monochromator with sagittally bent second crystal (*Letter to the Editor*), Hrdy, J. A306 (1991) 406
A 24-meter spherical grating monochromator at the Photon Factory, Yagishita, A., T. Hayaishi, T. Kikuchi and E. Shigemasa A306 (1991) 578
Theoretical considerations on the design of three-beam X-ray monochromators for synchrotron radiation, Chen, C.-H. and S.-L. Chang A306 (1991) 584
Standing-wave free-electron laser two-beam accelerator, Sessler, A.M., D.H. Whittum, J.S. Wurtele, W.M. Sharp and M.A. Makowski A306 (1991) 592

The theory of the harmonically resonant cavity with a self-excited multiple frequency field, Zhao Zhentang, Liu Naiquan, Lin Yuzheng and Tong Dechun A307 (1991) 132
Performance of a SX-700 monochromator exposed to wiggler radiation: coupled ray tracing and finite-element approach, De Castro, A.R.B. and R. Reininger A307 (1991) 135
Strict results of mode theory of a free electron laser with a plane Fabry–Pérot resonator, Saldin, E.L., E.A. Schneidmiller and M.V. Yurkov A307 (1991) 526
Strict results of FEL amplifier theory with stepped electron beam profile, Saldin, E.L., E.A. Schneidmiller and M.V. Yurkov A307 (1991) 531
1 GHz modulation of a high-current electron gun, Bakker, R.J., C.A.J. van der Geer, A.F.G. van der Meer, P.W. van Amersfoort, W.A. Gillespie and G. Saxon A307 (1991) 543
Bunching of an intense electron beam extracted from a triode gun modulated at 1 GHz, Van der Geer, C.A.J., R.J. Bakker, A.F.G. van der Meer, P.W. van Amersfoort, W.A. Gillespie and G. Saxon A307 (1991) 553
Radiation in a wiggler with sinusoidal magnetic field, Epp, V.Ya. and G.K. Razina A307 (1991) 562
Observation of coherent synchrotron radiation at the Cornell linac, Blum, E.B., U. Happek and A.J. Sievers . A307 (1991) 568
Low energy positron beam studies of WSi_x/n-Si(111), Weng, H., X. Guo, R. Han, X. Shi, J. Zhu, T. Zhao and X. Wang A307 (1991) 577

Proceedings of the Ninth USSR National Conference on Synchrotron Radiation Utilization (SR 90) (Moscow, USSR, June 26–29, 1990)

Section I. Synchrotron radiation sources and free electron lasers

Status of the research and development synchrotron radiation center Zelenograd, Kovalchuk, M.V., G.N. Kulipanov, Yu.M. Litvinov, S.N. Mazurenko, S. Samsonov and V.I. Zhiltsov A308 (1991) 1
Development of five compact storage rings, TERAS and NIJI-I–IV, at ETL, Tomimasu, T. A308 (1991) 6
SSRL 1990 – Status and future plans, Tatchyn, R. and H. Winick A308 (1991) 13
Free electron lasers with electron storage rings, Vinokurov, N.A. A308 (1991) 24
Present development at MAX-lab, Eriksson, M. A308 (1991) 28
Present status of the UVSOR light source, Isoyama, G. A308 (1991) 31
Improvements of the TROLL-2 synchrotron and new developments, Anevsky, S.I., A.E. Vernyi, V.S. Panasyuk and V.B. Khromchenko A308 (1991) 35
The results of lasing linewidth narrowing on the VEPP-3 storage ring optical klystron, Couprie, M.-E., N.G. Gavrilov, G.N. Kulipanov, V.N. Litvinenko, I.V. Pinaev, V.M. Popik, A.N. Skrinsky and N.A. Vinokurov . A308 (1991) 39
TNK – synchrotron radiation source for submicron technology applications, Anashin, V.V., E.I. Gorniker, N.G. Gavrilov, V.N. Korchuganov, G.N. Kulipanov, E.A. Kuper, G.Ya. Kurkin, V.S. Kuzminykh, E.B. Levichev, Yu.G. Matvejev, A.S. Medvedko, V.N. Osipov, S.P. Petrov, V.M. Petrov, A.N. Skrinsky, E.M. Trakhtenberg, V.A.Ushakov, A.G. Valentinov, V.G. Veshcherevich, P.D. Vobly and N.I. Zubkov A308 (1991) 45
Beam lines at the TNK SR source, Anashin, V.V., L.G. Isaeva, E.P. Kollerov, V.N. Korchuganov, G.N. Kulipanov, V.N. Mnev, V.E. Panchenko, E.M. Trakhtenberg and V.A. Ushakov A308 (1991) 50
Five-pole superconducting wiggler for the dedicated SR source TNK, Korchuganov, V.N., G.N. Kulipanov, E.B. Levichev, S.V. Sukhanov, V.A. Ushakov and A.G. Valentinov A308 (1991) 54
Multipole wiggler and undulator for the TNK SR source, Erg, G.I., V.N. Korchuganov, G.N. Kulipanov, E.B. Levichev, E.M. Trakhtenberg, V.A. Ushakov and A.G. Valentinov A308 (1991) 57
The SIBERIA dedicated synchrotron radiation source: status report on the storage rings complex at the Kurchatov Institute for Atomic Energy, Artemiev, A.N., S.M. Akhmedzhanov, A.A. Vasilyev, G.M. Gritsuk, A.V. Dozorov, Yu.V. Doronkin, A.V. Zabelin, M.N. Klimenko, S.A. Kotov, Yu.V. Krylov, V.A. Lebedev, A.V. Lipilin, I.M. Nagornyh, O.N. Nikulin, D.G. Odintsov, S.D. Pashkov, S.G. Pesterev, V.K. Prosvetov, V.N. Rybakov, M.M. Samorukov, V.A. Treshchin, V.L. Ushkov, A.R. Tsup, E.M. Chaikin and Yu.L. Yupinov A308 (1991) 61
On the SIBERIA SR facility research proposals, Artemiev, A.N. and S.D. Fanchenko A308 (1991) 66
A 10 T superconducting shifter for the "SIBERIA-2" storage ring, Barkov, A.V., A.V. Dudarev, V.V. Egorov, V.E. Keilin, O.V. Pavlov and A.V. Stepanenko A308 (1991) 70
Coherent cascade of X-ray transitions excited by synchrotron radiation in crystals, Belyakov, V.A. and Yu.M. Aivazian A308 (1991) 73
The multipole superconducting wiggler for the SIBERIA-2 storage ring, Artemiev, A.N., A.V. Barkov, A.I. Chechin, A.V. Dudarev, Yu.V. Krylov and N.V. Smolyakov A308 (1991) 77
Planar microundulator with rectangular grooved poles, Smolyakov, N.V. A308 (1991) 80
Focusing properties of a plane wiggler magnetic field, Smolyakov, N.V. A308 (1991) 83
Irregular structure undulator, Chechin, A.I. and N.V. Smolyakov A308 (1991) 86
Non-pointlike particle radiation in classical electrodynamics, Bagrov, V.G., G.I. Flesher and P.V. Strokov ... A308 (1991) 89
Optical characteristics of the LIS-2 pulsed laboratory synchrotron, Kuznetsov, A. and E. Vilt A308 (1991) 92

Radiation from the relativistic electron interacting with the whispering-gallery mode, Wainstein, L.A., A.I. Kleev and V.A. Solntzev A308 (1991) 94
Reflex free electron laser, Kapitza, S.P. and V.K. Semyonov A308 (1991) 97
Compact superconducting storage ring with azimuthal symmetry – SR source for technological purposes, Veshcherevich, V.G., P.D. Vobly, G.N. Kulipanov, N.A. Mezentsev, L.G. Morgunov, A.A. Ovchinnikov and V.N. Ponedelko A308 (1991) 102
On the mutual coherence of spontaneous radiation from two undulators separated by an achromatic bend, Kulipanov, G.N., V.N. Litvinenko, A.S. Sokolov and N.A. Vinokurov A308 (1991) 106
Observation of the mutual coherence of spontaneous radiation from two undulators separated by an achromatic bend, Gavrilov, N.G., G.N. Kulipanov, V.N. Litvinenko, I.V. Pinayev, V.M. Popik, I.G. Silvestrov, A.S. Sokolov, N.A. Vinokurov and P.D. Vobly A308 (1991) 109
Dependence of synchrotron light characteristics on the inhomogeneity of magnetic fields, Shishanin, O.E. . . . A308 (1991) 111
Coherent synchrotron radiation of a bunch of particles, Klepikov, N.P. and I.M. Ternov A308 (1991) 113
On the manifold of exact solutions of the problem of bosonization of a pair of 2D-electrons in a quantizing magnetic field, Lysov, B.A., O.F. Dorofeyev and I.M. Ternov A308 (1991) 115
The "self-diffraction" of synchrotron radiation by the edge of a magnetic field, Titov, A. and A. Yarov A308 (1991) 117
Formation of the synchrotron radiation continuum, Grishanin, A.B., A.V. Titov and A.S. Yarov A308 (1991) 120
On the construction of block-periodic undulators with metrologically pure radiation kernels, Medvedev, A.F., V.Ya. Epp, M.L. Shinkeev and V.F. Zalmezh A308 (1991) 124
Radiation and dynamics of relativistic charged particles in a magnetic field modulated by a superconductor, Bordovitsyn, V.A., V.Ya. Epp and V.Yu. Muravyatkin A308 (1991) 128
Radiation of charges in a strong undulator electromagnetic field, Nikitin, M.M., V.Yu. Muravyatkin and V.Ya. Epp A308 (1991) 131
Conventionally strange electromagnetic waves, Bessonov, E.G. A308 (1991) 135
On some methods of generating circularly polarized hard undulator radiation, Alekseev, V.I. and E.G. Bessonov A308 (1991) 140
On the shape of spectral lines, Bessonov, E.G. A308 (1991) 142
Experimental investigation of the operation of a parametric free-electron laser employing a bending magnet instead of an undulator, Serov, A.V. A308 (1991) 144
Numerical calculation of the gain of a free-electron laser, taking into account the modulation of parameters of an electron beam in its injection into the laser, Serov, A.V. A308 (1991) 146
Dynamics of the Stokes parameters of synchrotron radiation, Demyanov, G.V., V.A. Orlov, A.V. Titov, K.N. Shorin and A.S. Yarov A308 (1991) 149
Design considerations for a new weak-field soft X-ray undulator/FEL driver for PEP, Tatchyn, R., T. Cremer and P. Csonka A308 (1991) 152
Calibration of the absolute spectral sensitivity of a solar UV radiometer with the use of synchrotron radiation, Anevsky, S.I., A.E. Vernyi, D.A. Gonyukh, T.V. Kazachevskaya, I.V. Konev, V.I. Sapritsky, V.B. Khromchenko and Yu.N. Tsigel'nitskii A308 (1991) 165

Section II. VUV spectroscopy and photoemission

Properties of electron self-energies and their role in electron spectroscopies, Hedin, L. A308 (1991) 169
Status report on luminescence investigations with synchrotron radiation at HASYLAB, Zimmerer, G. A308 (1991) 178
Investigations of fast luminescence in ionic crystals under pulsed synchrotron radiation excitation at the S-60 electron synchrotron, Makhov, V.N. A308 (1991) 187
Excitation of stationary and photostimulated luminescence of BaFBr : Eu-phosphors in the range 4 to 25 eV, Belskiy, A.N., A.M. Gurvich, I.A. Kamenskikh, V.V. Mikhailin, M.G. Myagkova and M.A. Terekhin A308 (1991) 190
Luminescence of high-temperature yttrium-based superconductors, Stankevich, V.G., N.Yu. Svechnikov, K.V. Kaznacheev, R.A. Kink, I.L. Kuusmann, E.Kh. Feldbach, G. Zimmerer, T. Kloiber, A.A. Zhokhov, G.A. Emel'chenko, M.A. Kalyagin and V.Ya. Kosyev A308 (1991) 193
The study of corundum single crystal reflection spectra in the corundum fundamental absorption region, Harutunyan, V.V., A.N. Belsky, V.A. Gevorkyan, N.E. Grigoryan and H.N. Eritsyan A308 (1991) 197
Vacuum ultraviolet luminescence excitation spectra of α-Al_2O_3 single crystals, Harutunyan, V.V., V.A. Gevorkyan and N.E. Grigoryan A308 (1991) 200
Optical spectroscopy of free and bound excitons in lithium hydride crystals excited with synchrotron radiation, Pustovarov, V.A., T.A. Betenekova, E.I. Zinin and A.L. Rogalev A308 (1991) 203
Cross-luminescence peculiarities of complex KF-based fluorides, Makhov, V.N. and N.M. Khaidukov A308 (1991) 205
Intrinsic and impurity cross-luminescence in three-component barium-containing compounds, Aleksandrov, Yu.M., I.L. Kuusmann, V.N. Makhov, S.B. Mirov, T.V. Uvarova and M.N. Yakimenko A308 (1991) 208
Monte Carlo simulation of the cross-luminescence excitation spectrum in a CsBr crystal, Kikas, A. and M. Elango A308 (1991) 211

Protein fluorescence decay of human serum with a very low density of lipoproteins exposed to synchrotron radiation, Demyanov, G.V., N.K. Kurek, E.N. Lapshin, T.I. Syrejshchikova and M.N. Yakimenko A308 (1991) 215
Secondary photoelectron spectra of ionic solids as a function of the incident photon energy, Ausmees, A., M. Elango, E. Nõmmiste, J.N. Andersen, R. Nyholm and I. Martinson A308 (1991) 219
Energy dependence of photoemission spectra of $YBa_2Cu_3O_{7-x}$ ceramics using synchrotron radiation in the vacuum ultraviolet range, Mikheeva, M.N., V.G. Nazin, A.V. Svishchev and I.V. Kireev A308 (1991) 223
Chemical composition, state of oxygen and its reaction ability on zinc oxide according to XPS and UPS SR data, Devyatov, V.G., A.E. Cherkashin and S.V. Koshcheev A308 (1991) 225
Photoelectric emission and electronic structure of silicates: SiO_2 and $Na_2O \cdot 3SiO_2$, Vishnakov, V. and A. Trukhin A308 (1991) 227

Section III. EXAFS

An EXAFS study of the detailed structure of Bi–Pb–Ca–Sr–Cu–O ceramics, Mazalov, L.N., N.V. Bausk, V.S. Kravchenko and Ye.B. Amitin A308 (1991) 230
EXAFS studies of MeO_{3-x} (Me = W, Mo, Re, Ir) crystalline and amorphous oxides, Balerna, A., E. Bernieri, E. Burattini, A. Kuzmin, A. Lusis, J. Purans and P. Cikmach A308 (1991) 234
XANES studies of MeO_{3-x} (Me = W, Re, Ir) crystalline and amorphous oxides, Balerna, A., E. Bernieri, E. Burattini, A. Kuzmin, A. Lusis, J. Purans and P. Cikmach A308 (1991) 240
Polarized fluorescence EXAFS-studies of HTSC thin films, Drobyazko, I.B., D.G. Emelyanenkov, Yu.M. Litvinov, A.L. Rogalev and V.K. Fedorov A308 (1991) 243
Phase transition in the $Sm_xGd_{1-x}S$ system: sulphur XANES and X-ray emission analysis, Soldatov, A.V., Yu.V. Sukhetsky and A. Bianconi A308 (1991) 246
Confirmation of hydrogen-induced unoccupied states in PdH: multiple-scattering analysis of palladium L_1 and L_3 XANES, Bianconi, A., A.V. Soldatov and T.I. Ivanchenko A308 (1991) 248
The investigation of structural features and crystallization of amorphous alloys $Co_{80}(Cr, Mo)_{10}Zr_{10}$ with the use of synchrotron radiation, Tagabilev, G.Kh., V.K. Fyodorov, D.I. Kochubey, S.N. Gusenko, I.B. Kekalo and Yu.A. Skakov A308 (1991) 251
Short-range order in yttria-stabilized zirconia: an EXAFS study, Zschech, E., G. Auerswald, E.D. Klinkenberg and B.N. Novgorodov A308 (1991) 255

Section IV. X-ray diffraction and scattering

Macromolecular crystallography using synchrotron radiation: progress on station 9.5 and a novel (toast-rack) detector scheme for Laue diffraction, Helliwell, J.R. A308 (1991) 260
Fundamentals of inelastically scattered X-ray synchrotron radiation as a probe for the electronic structure of condensed matter, Alexandropoulos, N.G. A308 (1991) 267
Results of the development of fast and precise methods for the determination of the structural perfection of crystals using synchrotron radiation at the Yerevan Physics Institute, Karabekov, I.P. A308 (1991) 272
X-ray stress measurements with synchrotron radiation, Neissendorfer, F., H.J. Rossa, K.P. Thiessen, B.P. Tolochko, S.V. Mytnichenko and M.A. Sheromov A308 (1991) 276
Photoelectron yield excited by an X-ray standing wave with synchrotron radiation: energy-dispersive measurements with a magnetic analyzer, Nikolaenko, A.M., M.V. Kovalchuk, A.S. Semiletov, Yu.N. Shilin, E. Michel and G. Materlik A308 (1991) 278
Rocking curves structure in the vicinity of an *n*-beam interaction point, Alexandropoulos, N.G., H.J. Juretschke, D. McWhan and K.T. Kotsis A308 (1991) 282
X-ray diffraction and continuous small-angle scattering of turkey tendons with the improved area detector at Frascati, Shah, J.S., A. La Monaca, A. Bigi and N. Roveri A308 (1991) 285
Total integrated intensity of Bragg-diffracted synchrotron radiation for crystals with defects, Baryakhtar, V.G., M.V. Kovalchuk, Yu.M. Litvinov, V.B. Molodkin, V.V. Nemoshkalenko, S.I. Olikhovskii, E.N. Kislovskii and A.I. Nizkova A308 (1991) 291
Energy dispersive analysis of total integrated intensity of diffracted synchrotron radiation in monocrystals with defects, Nemoshkalenko, V.V., V.B. Molodkin, S.I. Olikhovskii, M.V. Kovalchuk, Yu.M. Litvinov, E.N. Kislovskii and A.I. Nizkova A308 (1991) 294
Visualization of X-ray Fourier images of deformation fields for various types of defects in monocrystals, Kislovskii, E.N., Yu.M. Litvinov, V.B. Molodkin, V.V. Nemoshkalenko, A.I. Nizkova, S.I. Olikhovskii, N.A. Hudik and M.V. Kovalchuk A308 (1991) 297
Synchrotron radiation spectral distribution and dose influence on the surface states at the $Si–SiO_2$ interface, Mikhailov, M.A., Yu.M. Litvinov, Yu.A. Matveenko, S.N. Mazurenko and V.M. Stratonov A308 (1991) 301
X-ray diffractometry of thin films using synchrotron radiation beams, Shabelnikov, L.G. and A.P. Zuev A308 (1991) 305
Glancing angle X-ray diffractometry of ion-implanted metals by means of synchrotron radiation, Kadyrzhanov, K.K., N.F. Yugai, Yu.Zh. Tuleushev and S.V. Mytnichenko A308 (1991) 308

Section V. X-ray fluorescence analysis

Platinoid identification in geological samples by the SRXFA technique for receiving genetic information, Khvostova, V.P., S.V. Golovnya, V.B. Baryshev and K.V. Zolotarev A308 (1991) 312
The SRXFA technique in analytical concentrates analysis, Khvostova, V.P., V.A. Trunova, V.B. Baryshev and K.V. Zolotarev A308 (1991) 315
Scanning X-ray fluorescence microanalysis of phosphorites from the underwater mountains of the Pacific, Daryin, A.V., V.B. Baryshev and K.V. Zolotarev A308 (1991) 318
Application of SR-XFA for identification of the basic composition of high-temperature superconductors, Trunova, V.A., V.S. Danilovich, V.B. Baryshev and K.V. Zolotarev A308 (1991) 321

Section VI. VUV and soft X-ray optics

Multilayer Ti–Be interference structures for ultrasoft X-ray radiation prepared by pulsed laser sputtering, Kruglyakov, E.P., M.V. Fedorchenko, A.L. Fedorov and N.I. Chkhalo A308 (1991) 325
Project of a station for gaseous-phase studies within 17 to 106 nm at VEPP-2M, Lyakh, V.V., V.P. Naz'mov, E.M. Trakhtenberg and B.K. Bublik A308 (1991) 327
Project for a photochemistry station at VEPP-2M, Naz'mov, V.P. A308 (1991) 330
Study of SR beam line windows within the range of 17–80 nm, Chesnokov, V.V., V.I. Fedchenko and V.P. Naz'mov A308 (1991) 333
Unified basic modules of UHV monochromators for synchrotron radiation, Erme, E. and R. Koger A308 (1991) 336
Grazing-incidence cylindric mirror with multiple reflection for the soft X-ray spectral range, Alexandrov, Yu.M., D.A. Fedin, R.V. Fedorchuk, M.O. Koshevoi, I.V. Kozhevnikov, V.A. Murashova, T. Pisarzyk, A.A. Rupasov, A.S. Shikanov, M.N. Yakimenko and A.V. Vinogradov A308 (1991) 340
Investigation of sensitometric characteristics of X-ray photoemulsions in the spectral range of 15–80 Å, Alexandrov, Yu.M., K. Eidmann, D.A. Fedin, R.V. Fedorchuk, M.O. Koshevoi, V.A. Murashova, A.A. Rupasov, A.S. Shikanov, M.R. Shpol'sky and M.N. Yakimenko A308 (1991) 343
The ultraviolet transmittance of porous VUV and X-ray diffraction filters, Mitrofanov, A.V., F.A. Pudonin, P.Yu. Apel and T.I. Gromova A308 (1991) 347

Section VII. Hard X-ray instrumentation

The experimental station for X-ray microscopy and microtomography at the VEPP-3 storage ring, Dementyev, E.N., I.P. Dolbnya, S.G. Kurylo, N.A. Mezentsev, V.F. Pindyurin and M.A. Sheromov A308 (1991) 352
Applications of perfect crystal X-ray optics, Ishikawa, T., K. Hirano and S. Kikuta A308 (1991) 356
Two-dimensional focusing of hard X-rays by a phase circular Bragg–Fresnel lens in the case of Bragg backscattering, Basov, Yu.A., T.L. Pravdivtseva, A.A. Snigirev, M. Belakhovsky, P. Dhez and A. Freund . . A308 (1991) 363
Peculiarities of CCD and photodiode arrays application to X-ray image detection, Fedotov, M.G., E.A. Kuper and V.E. Panchenko A308 (1991) 367
Simulation of a multilayer X-ray mirror with fluctuation and systematic deviation of periods, Yuan, X.Y., C. Gao, S.P. Guo, X.C. He and Z.Q. Wu A308 (1991) 372
Determination of the deviations in multilayers from X-ray diffraction profiles, He, X.C., H.S. Shen, X.Y. Yuan and Z.Q. Wu A308 (1991) 375
Study of dynamically bent crystals for X-ray focusing optics, Krisch, M., A. Freund, G. Marot and L. Zhang . . A308 (1991) 378
An ESRF beamline dedicated to polarization-sensitive XAS at low excitation energies, Elleaume, P., J. Chavanne, X. Maréchal, J. Goulon, L. Braicovich, C. Malgrange, H. Emerich, G. Marot and J. Susini A308 (1991) 382
Transfer of circular polarization in Bragg crystal X-ray monochromators, Malgrange, C., C. Carvalho, L. Braicovich and J. Goulon A308 (1991) 390
Exception of the effect of the harmonic component in monochromatic synchrotron radiation using a special ionization chamber, Egikian, D.L., R.A. Mikaelian and G.G. Hovakimian A308 (1991) 397
Focusing of X-rays using tapered waveguides, Denisov, E.I., V.I. Glebov and N.K. Zhevago A308 (1991) 400
Distributed SR receiver for the strong-field superconducting wavelength shifter of the SIBERIA-2 storage ring, Artemiev, A.N., A.V. Avaev and O.V. Sinyansky A308 (1991) 405
Double crystal dispersion monochromator for X-ray plane wave diffraction, Lider, V.V. A308 (1991) 407
Report on the raytracing of a focussing mirror for a PX station on the storage ring "SIBERIA-2", Raiko, V.I. and A.W. Thompson A308 (1991) 409
Optical properties of a phase linear Bragg–Fresnel lens, Aristov, V.V., Yu.A. Basov, A.A. Snigirev, V.A. Yunkin, T. Ishikawa and S. Kikuta A308 (1991) 413
X-ray focusing monochromator for an X-ray scanning microscopy and microtomography station, Dolbnya, I.P., G.N. Gavrilov, N.A. Mezentsev, V.F. Pindyurin and M.A. Sheromov A308 (1991) 416
X-ray monochromator for digital subtraction angiography using synchrotron radiation, Barsukov, V.P., I.P. Dolbnya, Yu.M. Kolokolnikov, S.G. Kurylo, N.A. Mezentsev, V.F. Pindyurin and M.A. Sheromov A308 (1991) 419

Spatial correction of solid-state semiconductor imaging detectors in the X-ray region, Fedotov, M.G., E.A. Kuper, V.E. Panchenko and S.A. Tiunov A308 (1991) 423
Spatial distortions in solid-state semiconductor X-ray imaging detectors, Fedotov, M.G., E.A. Kuper, V.E. Panchenko and S.A. Tiunov A308 (1991) 427
Experimental observation of intracell avalanche amplification in charge coupled devices, Fedotov, M.G., E.A. Kuper and V.E. Panchenko A308 (1991) 430
Measuring the absolute sensitivity of an X-ray electron-optical image converter in the range 7–20 keV, Dolbnya, I.P., B.A. Knyazev, V.P. Simonov and G.G. Feldman A308 (1991) 435
Nontraditional X-ray narrow-band-pass filter-polarimeter, Dolbnya, I.P. and V.A. Chernov A308 (1991) 438
Focusing shaped pyrographite monochromators in synchrotron radiation experiments, Antonov, A.A., V.B. Baryshev, I.G. Grigoryeva, G.N. Kulipanov and N.N. Shchipkov A308 (1991) 442
Computer-planned synchrotron white X-ray topography, Sheremetyev, I.A., A.V. Turbal, Yu.M. Litvinov and M.A. Mikhailov A308 (1991) 447
Computer deciphering of Laue patterns: application to white synchrotron X-ray topography, Sheremetyev, I.A., A.V. Turbal, Yu.M. Litvinov and M.A. Mikhailov A308 (1991) 451
Growth of crystals for synchrotron radiation Mössbauer investigation, Kotrbova, M., J. Hejduk, V.V. Malnev, V.N. Seleznev, S.V. Yagupov, N.V. Andronova, A.I. Chechin and A.Yu. Mikhailov A308 (1991) 456
Precision positioning devices, Artemiev, A.N., S.V. Krupin, V.D. Podshibyakin, A.D. Kharitonov and A.A. Yagudin A308 (1991) 459
Structure determinations of macromolecules using the "SIBERIA" synchrotron radiation source, Kusev, S.V., M.A. Mokulskii and V.I. Raiko A308 (1991) 464
Synchrotron radiation absorber for high density loads, Anashin, V.V., V.S. Kuzminych, E.M. Trakhtenberg and A.A. Zholents A308 (1991) 467

Construction and commissioning of the first wiggler at BEPC, Zeng Jiyang, Shi Caitu, Sun Jian, Chen Renhuai, Liu Maosan and Chen Shaoxing A308 (1991) 616
A new angle-resolving photoelectron spectrometer for photoionisation studies of free atoms and molecules using synchrotron radiation, Kreile, J., H.-D. Kurland, W. Seibel and A. Schweig A308 (1991) 621
Elliptical-polarization analyses of synchrotron radiation in the 5–80-eV region with a reflection polarimeter, Koide, T., T. Shidara, M. Yuri, N. Kandaka, K. Yamaguchi and H. Fukutani A308 (1991) 635
Linear zone plate monochromator for soft X-ray microscopy, Xu Chaoyin, Zhang Yunwu, Wang Qiuping, Liu Shaoyi and Zhou Hongjun A308 (1991) 645
Lasing in visible of a storage-ring free electron laser at ETL, Yamazaki, T., K. Yamada, S. Sugiyama, H. Ohgaki, T. Tomimasu, T. Noguchi, T. Mikado, M. Chiwaki and R. Suzuki A309 (1991) 343
Discussion and improvement of the SX-700 beamline, Lu, L.-J. and J.-Y. Chen A309 (1991) 581
FELTRON: a high-power microwave power source for high-gradient linear colliders, Boscolo, I. and L. Elias . A309 (1991) 585
An avalanche photodiode detector for X-ray timing measurements (*Letter to the Editor*), Kishimoto, S. A309 (1991) 603
Development of a microcalorimeter for measuring absolute intensity of synchrotron radiation, Nakashima, H., S.-I. Tanaka, M. Yoshikawa, H. Hirayama, S. Ban, Y. Namito and N. Nariyama A310 (1991) 696

Special Applications

Radiocarbon detection with a small low energy cyclotron, Bertsche, K.J., C.A. Karadi and R.A. Muller A301 (1990) 358

Letters to the Editor

Monitoring of electron drift velocity in drift chambers with α-delay recoils, Vorobyov, A.A., V.S. Guselnikov, A.Yu. Maiorov, O.E. Prokofiev and V.M. Zaitsev A301 (1990) 167
Temperature treatment of plastic scintillator affects radiation hardness, Johnson, K.F. and H.L. Whitaker ... A301 (1990) 372
Operation of a high-purity silicon diode alpha particle detector at 1.4 K, Martoff, C.J., E. Kaczanowicz, B.J. Neuhauser, E. Lopez, Y. Zhang and F.P. Ziemba A301 (1990) 376
Gun optimization for an electron-beam ion source, Tyrroff, H., H. Danared and L. Liljeby A301 (1990) 591
Measurement of β^+-activity by detecting 511 keV annihilation γ-rays, Kawade, K., K. Katou, A. Osa, M. Shibata, H. Yamamoto, T. Katoh, T. Iida and A. Takahashi A301 (1990) 594
On optical resolution of beam size measurements by means of synchrotron radiation, Ogata, A. A301 (1990) 596
On the model of the limited streamer mechanism, Tang Xiaowei A302 (1991) 186
Generation of extremely dense negative ion currents by means of a laser, Korschinek, G. and T. Henkelmann A302 (1991) 376

Observation of high intensity negative ion pulses by laser impact, Berkovits, D., E. Boaretto, G. Hollos, W. Kutschera, R. Naaman, M. Paul and Z. Vager A302 (1991) 379
Low energy charged particle detection in a light-ion storage ring, Pitts, W.K., J.S. Price, S.F. Pate, B. von Przewoski, T. Rinckel and F. Sperisen A302 (1991) 382
A two-dimensional position-sensitive detection system for the ^{8}Be nuclei in heavy ion reactions, Ideno, K., Y. Tomita, Y. Sugiyama, H. Ikezoe, S. Hanashima and Y. Nagame A302 (1991) 385
Geometry dependence of the empirical relationship between volume and efficiency for Ge detectors, Pascarelle, S.M., A. Owens, N. Gehrels and B.J. Teegarden A302 (1991) 388
Correction of experimental fission neutron spectra for fragment detection anisotropy, Märten, H. A302 (1991) 390
A low noise figure nuclear spectroscopy amplifier, Dési, S. A305 (1991) 214
Soft X-ray dosimetry using radiachromic nylon films, Guttmann, G.D., B.L. Henke and J.A. Kerner A305 (1991) 216
An analog mean-timer for long scintillation counters, Cavestro, A., D. Gibin, A. Guglielmi, F. Mattioli, M. Mezzetto, P.G. Schiavon, G. Puglierin and M. Vascon A305 (1991) 488
Dead-time corrections for multiplicity counters, Dytlewski, N. A305 (1991) 492
Effects of nitrogen contamination on the operation of limited streamer tubes, Lau, K., J. Pyrlik, P. Roumeliotis and R. Weinstein A306 (1991) 397
Application of a high efficiency selective laser ion source at the IRIS facility, Alkhazov, G.D., L.Kh. Batist, A.A. Bykov, V.D. Vitman, V.S. Letokhov, V.I. Mishin, V.N. Panteleyev, S.K. Sekatsky and V.N. Fedoseyev A306 (1991) 400
The resolution of plastic scintillators for cosmic ray H and He isotopes, Webber, W.R. A306 (1991) 403
Horizontal divergence of synchrotron radiation, which is accepted by a double crystal $(n, -n)$ monochromator with sagittally bent second crystal, Hrdy, J. A306 (1991) 406
The resistive plate counter as a neutron detector, Calligarich, E., R. Cardarelli, A. Cesana, S. Colangelo, G.L. Raselli, G. Sandrelli, M. Terrani and A. Testi A307 (1991) 142
Tests of a solid CsI photocathode in a thin multiwire proportional chamber, Starič, M., A. Stanovnik and P. Križan A307 (1991) 145
Comments on the mechanism of the self-quenching streamer transition, Tang Xiaowei A307 (1991) 580
On the mechanism of self-quenching streamer formation, Koori, N., A. Nohtomi, Y. Uozumi, T. Sakae and M. Matoba A307 (1991) 581
Parallel-plate avalanche counter for dosimetry in the RIKEN ring cyclotron biology facility, Kumagai, H., Y. Yamada, N. Tajima, K. Nakano, F. Yatagai and T. Takahashi A308 (1991) 649
A simple structure for reducing gas-flow into a PIG discharge column, Sato, Y., H. Ogawa, S. Yamada and T. Yamada A309 (1991) 348
High resolution detection of X-rays with a large area Nb/Al–AlO_x/Al/Nb superconducting tunnel junction, Matsumura, A., T. Takahashi and M. Kurakado A309 (1991) 350
Lens first-order transfer matrices incorporating third-order aberrations, Page, S.C. and F.H. Read A309 (1991) 594
BGO crystals – radiation hard scintillators, Yanovski, V.V., V.A. Chizhov and V.M. Skorikov A309 (1991) 596
Silicon for ultra-low-level detectors and ^{32}Si, Plaga, R. A309 (1991) 598
A high-resolution isotope separator using symmetrically-split magnets, Fujioka, M., H. Sunaoshi, H. Wollnik and T. Nomura A309 (1991) 600
An avalanche photodiode detector for X-ray timing measurements, Kishimoto, S. A309 (1991) 603
Optimization of the performance of rf transitions for the TUNL atomic beam polarized ion source, Crosson, E.R., T.B. Clegg, H.J. Karwowski and S.K. Lemieux A310 (1991) 703
A long position and angle resolving light ion detector for the Munich Q3D magnetic spectrograph, Zanotti, E., M. Bisenberger, R. Hertenberger, H. Kader and G. Graw A310 (1991) 706

Erratum

The ALEPH Collaboration, D. Decamp et al., *A detector for electron–positron annihilations in LEP,* Nucl. Instr. and Meth. A294 (1990) 121–178 . . . . . A303 (1991) 393

Book Review

New books A305 (1991) 219

Now available from Elsevier Science Publishers:

JOURNAL OF GEOMETRY AND PHYSICS

Executive Editor:
M. Modugno,
University of Florence, Florence, Italy

Editorial Board:
A. Lichnerowicz, *Paris, France* (Chairman)
O. Alvarez, *Berkeley, CA, U.S.A.*
V.I. Arnold, *Moscow, Russia*
M.F. Atiyah, *Cambridge, U.K.*
S. Benenti, *Turin, Italy*
M. Cahen, *Brussels, Belgium*
Y. Choquet-Bruhat, *Paris, France*
D. Christodoulou, *Syracuse, U.S.A.*
R. Debever, *Brussels, Belgium*
S. Deser, *Waltham, MA, U.S.A.*
C.T.J. Dodson, *Toronto, Canada*
L.D. Faddeev, *Leningrad, Russia*
M. Francaviglia, *Turin, Italy*
P.L. Garcia Perez, *Salamanca, Spain*
S. Gindikin, *New Brunswick, U.S.A.*
J. Kijowski, *Warsaw, Poland*
J.L. Koszul, *St.Martin d'Heres, France*
D. Krupka, *Opava, Czechoslovakia*
L. Mangiarotti, *Camerino, Italy*
Y. Manin, *New York, NY, U.S.A.*
J.E. Marsden, *Berkeley, CA, U.S.A.*
M. Modugno, *Florence, Italy*
A. Perez-Rendon, *Salamanca, Spain*
A. Polyakov, *Princeton, NJ, U.S.A.*
B. Schmidt, *Munich, Germany*
I.M. Singer, *Cambridge, MA, U.S.A.*
J.M. Souriau, *Marseille, France*
R. Stora, *Geneva, Switzerland*
W. Thirring, *Vienna, Austria*
A. Trautman, *Warsaw, Poland*
W. Tulczyjew, *Calgary, Canada*
A.M. Vinogradov, *Moscow, Russia*
T.J. Willmore, *Durham, U.K.*

NORTH-HOLLAND
(ELSEVIER SCIENCE PUBLISHERS)
P.O. Box 211, 1000 AE Amsterdam,
The Netherlands

In the U.S.A. / Canada:
ELSEVIER SCIENCE PUBLISHERS
P.O. Box 882, Madison Square Station,
New York, NY 10159, U.S.A.

The Journal of Geometry and Physics is an International Journal in Mathematical Physics. The Journal stimulates the interaction between geometry and physics by publishing primary research-, discussion- and review articles which are of common interest to scientists in both fields.

The Journal covers the following areas of research:

Methods of:

- Lie groups and Lie algebras and their representations
- Quantum groups and their representations • Algebraic geometry
- Differential topology • Real and complex differential geometry
- Geometrical approaches to dynamical systems and partial differential equations • Global analysis
- Non-commutative differential geometry

Applications to:

- Classical mechanics of systems of finite and infinite degrees of freedom • Quantum mechanics, especially geometrical schemes of quantization • Classical and quantum field theory
- Quantum fields on curved space-time • Classical and quantum gravity • Strings and superstrings

A Selection of Recently Published and Forthcoming Papers:

- *E. Witten:* Two dimensional gauge theories revisited
- *J. Chr. Larsen:* Singular semi-Riemannian geometry
- *C. Ferrario and A. Passerini:* Dynamical symmetries in constrained systems: a Lagrangian analysis • *D. Gurevich, V. Rubtsov and N. Zobin:* Quantization of Poisson pairs: the *R*-matrix approach • *G.W Patrick:* Relative equilibria in Hamiltonian systems: The dynamic interpretation of nonlinear stability on a reduced phase space • *J. Grabowski:* Abstract Jacobi and Poisson structures: Quantization and star-products
- *A. Cabras and A.M. Vinogradov:* Extensions of the Poisson bracket to differential forms and multi-vector fields
- *B.A. Khesin :* Ergodic interpretation of integral hydrodynamic invariants • *J. Kijowski and G. Magli:* Relativistic elastomechanics as a Lagrangian field theory • *C. Moreno and L. Valero:* Star products and quantization of Poisson-Lie groups
- *E. Musso:* The local embedding problem for optical structures
- *G. Landi and C. Reina:* Symplectic dynamics on the universal Grassmannian • *F. Ongay-Larios and O.A. Sánchez-Valenzuela:* Hamilton's equations and supersymplectic flows on (2,2)-dimensional superspace.

Subscription Information:
1992: Volumes 9 and 10 in 8 issues US $ 307.00 / Dfl. 562.00
ISSN 0393-0440

A free specimen copy is available from the publisher. 415/j/492b

ENRICO FERMI
INTERNATIONAL SCHOOL OF PHYSICS

The Enrico Fermi International School of Physics aims to promote and disseminate up-to-date information on current developments in various fields of contemporary physics. It has built up a prestigious reputation as a high quality international school, where over the years many famous scientists, including some 24 Nobel Prize winners, have presented their lectures. So far, over 100 courses have been held, covering an impressive range of disciplines and representing some of the most important topics in modern physics, e.g. the physics of the elementary constituents of matter, the scientific and technical developments of solid state and plasma physics, the structure and dynamical properties of atomic nuclei and the cosmological evolution of stars. The Enrico Fermi International School thus plays an essential role in modern physics.

Volume 116

Status and Perspectives of Nuclear Energy: Fission and Fusion

edited by **C. Salvetti, R.A. Ricci** *and* **E. Sindoni**

1992 xxiv + 490 pages
Price: US $200.00/Dfl.350.00
ISBN 0-444-89425-X

Volume 113

High-Pressure Equations of State: Theory and Applications

edited by **S. Eliezer** *and* **R.A. Ricci**

1991 xvi + 564 pages
Price: US $185.75/Dfl.325.00
ISBN 0-444-89259-1

Volume 112

Nuclear Collisions from the Mean-Field into the Fragmentation Regime

edited by **C. Detraz** *and* **P. Kienle**

1992 xii + 522 pages
Price: US $182.75/Dfl.320.00
ISBN 0-444-89426-8

Volume 111

Solid State Astrophysics

edited by **E. Bussoletti** *and* **G. Strazzulla**

1991 xii + 430 pages
Price: US $165.50/Dfl.290.00
ISBN 0-444-89218-4

Volume 109

Nonlinear Topics in Ocean Physics

edited by **A.R. Osborne**

1991 xx + 1000 pages
Price: US $ 240.00/Dfl. 420.00
ISBN 0-444-89017-3

Volume 108

Photoemission and Absorption Spectroscopy of Solids and Interfaces with Synchrotron Radiation

edited by **M. Campagna** *and* **R. Rosei**

1990 xiv + 488 pages
Price: US $ 142.75 /Dfl. 250.00
ISBN 0-444-88470-X

Volume 107

The Chemical Physics of Atomic and Molecular Clusters

edited by **G. Scoles**

1990 xviii + 818 pages
Price: US $ 222.75 /Dfl. 390.00
ISBN 0-444-88331-2

Volume 106

Current Trends in the Physics of Materials

edited by **G.F. Chiarotti, F. Fumi** *and* **M.P. Tosi**

1990 xx + 928 pages
Price: US $ 251.50 /Dfl. 440.00
ISBN 0-444-88333-9

A subscription scheme offering 15% discount off the list price per volume is available.

Volume 105

Confrontation between Theories and Observations in Cosmology: Present Status and Future Programmes

edited by **J. Audouze** *and* **F. Melchiorri**

1990 xiv + 456 pages
Price: US $ 208.50/Dfl. 365.00
ISBN 0-444-87112-8

Volume 104

Frontiers and Borderlines in Many-Particle Physics

edited by **R.A. Broglia** *and* **J.R. Schrieffer**

1988 x + 460 pages
Price: US $ 185.75/Dfl. 325.00
ISBN 0-444-87113-6

Volume 103

Trends in Nuclear Physics

edited by **P. Kienle, R.A. Ricci** *and* **A. Rubbino**

1989 xvi + 612 pages
Price: US $ 225.75/Dfl. 395.00
ISBN 0-444-87114-4

In preparation:

Volume 110

Metrology at the Frontiers of Physics and Technology

edited by **L. Crovini** *and* **T.J. Quinn**

1992 about 650 pages
ISBN 0-444-89770-4

Volume 114

Industrial and Technological Applications of Neutrons

edited by **M. Fontana** *and* **F. Rustichelli**

Volume 115

The Use of EOS for Studies of Atmospheric Physics

edited by **J.C. Gille** *and* **G. Visconti**

North-Holland

(Elsevier Science Publishers)
P.O. Box 211,
1000 AE Amsterdam,
The Netherlands

In the USA & Canada:
Elsevier Science Publishers
Attn. Judy Weislogel
P.O. Box 945, Madison Square Station
New York, NY 10160-0757

US $ prices are valid in the USA and Canada. In all other countries, the Dutch Guilder (Dfl.) price is definitive. Customers in the Netherlands please add 6% BTW. In New York State, applicable sales tax should be added. All prices are subject to change without prior notice.

404/b/457c

An International Journal affiliated with EMSA, ISEM, SCANDEM, NVEM, SGOEM, SIME-SM, DGE, MSC and ASEM, committed to the advancement of the tools and methods for the microscopic determination of ultra-structures

ULTRAMICROSCOPY

Editor:
E. Zeitler,
Fritz-Haber-Institut, Faradayweg 4-6, D-1000 Berlin 33, Germany

Fields of Interest:

- Ultramicroscopy: comprehensive coverage of all techniques, e.g. Electron Microscopy, SEM, TEM, HREM, STM, EELS, Diffraction Techniques, etc.
- Instrumentation, Techniques, Specimen Preparation, Image Processing
- Surfaces and Thin Film Characterisation

Subscription Information:

1992: Volumes 42-46 (in 20 issues)
Price: US $986.00/Dfl. 1805.00
(including postage and handling)
ISSN 0304-399

Abstracted/Indexed In:

Engineering Index, Excerpta Medica, ISI Current Contents, Metal Abstracts, Physics Abstracts, Physikalische Berichte/Physics Briefs.

For further information and/or a free inspection copy of ***ULTRAMICROSCOPY,*** *mail the order form to the publisher:*

NORTH-HOLLAND

(ELSEVIER SCIENCE PUBLISHERS)
P.O. Box 211, 1000 AE Amsterdam,
The Netherlands

In the U.S.A. / Canada:
ELSEVIER SCIENCE PUBLISHERS
P.O. Box 882, Madison Square Station,
New York, NY 10159, U.S.A.

Aims and Scope:

Scientists engaged in ultrastructure research seem to fall into two overlapping categories. One group uses already existing tools and methods to advance knowledge in particular disciplines. The second group is committed to developing the tools and methods themselves. For the benefit of both groups, this work finds its outlet in ULTRAMICROSCOPY, a journal initiated to provide a forum for investigators and to concentrate otherwise widely dispersed knowledge, promoting "cross-fertilization" between the two groups. This communication between developer and user covers all aspects - fundamental and technical - pertaining to ultramicroscopic elucidation of structure, ranging from particle optics to radiation interaction.

Just Published:

Special issue on "Structure and Properties of Interfaces "
(Vol. 40/3, March 1992), containing the invited and contributed papers of the above mentioned conference, held at Wickenburg Inn, Arizona, January 1991, edited by D.J. Smith and R.W. Carpenter.
Contributors: *J.E. Angelo, G. Aragón, H.K. Birnbaum, W. Braue, R.W. Carpenter, Y.L. Chen, F. Cosandey, J.M. Cowley, B.N. Cox, K. Das Chowdhury, M.S. Daw, P. Deymier, R. García, W.W. Gerberich, C.T. Herakovich, J.S. Hidde, M.J. Kim, T.C. Lee, J. Liu, P. Lu, M.R. McCartney, D.B. Marshall, K.L. Merkle, M.J. Mills, S.I. Molina, A. Needleman, A.K. Petford-Long, I.M. Robertson, G.H. Schwuttke, M. Shamsuzzoha, R.W. Siegel, D.J. Smith, D.A. Smith, M.B. Stearns, W.M. Stobbs, R.G. Teller, G.J. Thomas, J.K. Weiss, J.D. Weinberg, R.A. Youngman.*

ORDER FORM

ULTRAMICROSCOPY

☐ Yes, I would like to receive a free inspection copy.
☐ Yes, enter my 1992 subscription, volumes 42-46 in 20 issues, at US $986.00/Dfl.1805.00 (incl. postage & handling)
☐ Payment enclosed:
(Bank Draft/Eurocheque/International Money Order/Official Purchase Order Form/Personal Cheque/Postal Cheque)
☐ Please send invoice
☐ Charge my credit card:
☐ MasterCard ☐ Eurocard ☐ American Express ☐ VISA ☐ Access

Card No. _____ Valid until: _____

Name _____

Address _____

_____

_____

Date _____ Signature _____

1992
PHYSICS and MATERIALS SCIENCE JOURNALS
(Imprint North-Holland)

Applied Surface Science
Volumes 55-62 in 32 issues. Price: US $ 1370.00 / Dfl. 2768.00

Chemical Physics
Volumes 158-166 in 27 issues. Price: US $ 1840.00 / Dfl. 3717.00

Chemical Physics Letters
Volumes 186-197 in 72 issues. Price: US $ 3012.00 / Dfl. 6084.00

Computer Physics Communications
Volumes 66-71 in 18 issues. Price: US $ 1562.00 / Dfl. 3156.00

Fluid Dynamics Research
Volume 10 in 6 issues. Price: US $ 243.00 / Dfl. 491.00

Journal of Crystal Growth
Volumes 114-123 in 40 issues. Price: US $ 3545.00 / Dfl. 7160.00

Journal of Geometry and Physics
Volumes 9 and 10 in 8 issues. Price: US $278.00/Dfl.562.00

Journal of Luminescence
Volumes 52-54 in 18 issues. Price: US $ 648.00 / Dfl. 1308.00

Journal of Magnetism and Magnetic Materials
Volumes 103-113 in 33 issues. Price: US $ 2456.00 / Dfl. 4961.00

Journal of Non-Crystalline Solids
Volumes 137-148 in 36 issues. Price: US $ 2352.00 / Dfl. 4752.00

Journal of Nuclear Materials
Volumes 185-194 in 30 issues. Price: US $ 2233.00 / Dfl. 4510.00

Materials Letters
Volumes 12-14 in 18 issues. Price: US $ 544.00 / Dfl. 1098.00

Materials Science Reports
Volumes 8 and 9 in 16 issues. Price: US $ 352.00 / Dfl. 712.00

Nuclear Instruments and Methods in Physics Research - Section A
Accelerators, Spectrometers, Detectors & Associated Equipment
Volumes 310-322 in 39 issues. Price: US $ 3900.00 / Dfl. 7878.00

Nuclear Instruments and Methods in Physics Research - Section B
Beam Interactions with Materials and Atoms
Volumes 62-71 in 40 issues. Price: US $ 3000.00 / Dfl. 6060.00
Reduced combined 1992 subscription price to Nuclear Instruments and Methods - A and B: US $ 6331.00 / Dfl. 12,788.00

Nuclear Physics A
Volumes 536-550 in 60 issues. Price: US $ 3832.00 / Dfl. 7740.00

Nuclear Physics B
Volumes 366-386 in 63 issues. Price: US $ 5364.00 / Dfl. 10,836.00
Reduced combined 1992 subscription price to Nuclear Physics A+B: US $ 6985.00 / Dfl. 14,110.00

Nuclear Physics B - Proceedings Supplements
Volumes 24-28 in 10 issues Price: US $ 658.00 / Dfl. 1355.00
Reduced 1992 subscription price if combined with Nuclear Physics B or Nuclear Physics A and B: US $ 547.00 / Dfl. 1105.00

Optical Materials
Volume 1 in 4 issues. Price: US $ 164.00 / Dfl. 331.00

Optics Communications
Volumes 86-93 in 48 issues. Price: US $ 1489.00 / Dfl. 3008.00

Physica A - Statistical and Theoretical Physics
Volumes 180-189 in 40 issues. Price US $ 1837.00 / Dfl. 3710.00

Physica B - Condensed Matter Physics
Volumes 175-182 in 32 issues. Price: US $ 1469.00 / Dfl. 2968.00

Physica C - Superconductivity
Volumes 185-201 in 68 issues. Price: US $ 3122.00 / Dfl. 6307.00

Physica D - Nonlinear Phenomena
Volumes 53-60 in 18 issues. Price: US $ 1496.00 / Dfl. 2968.00

Reduced rates are available for combined subscriptions to Physica; please contact the publisher for details.

Physics Letters A
Volumes 160-171 in 72 issues. Price: US $ 1848.00 / Dfl. 3732.00

Physics Letters B
Volumes 272-293 in 88 issues. Price US $ 3387.00 / Dfl. 6842.00

Physics Reports
(including Computer Physics Reports)
Volumes 215-227 in 78 issues. Price: US $ 2001.00 / Dfl. 4043.00
Reduced combined 1992 subscription price to Physics Letters A, Physics Letters B & Physics Reports: US $ 6305.00 / Dfl. 12,737.00

Solar Energy Materials and Solar Cells
Volumes 25-27 in 12 issues. Price: US $ 447.00 / Dfl. 903.00

Solid State Ionics
Volumes 51-58 in 32 issues. Price: US $ 1202.00 / Dfl. 2528.00

Surface Science
(including Surface Science Letters)
Volumes 258-275 in 54 issues. Price: US $ 4019.00 / Dfl. 8118.00

Surface Science Reports
Volume 15 in 8 issues. Price: US $ 171.00 / Dfl. 346.00
Reduced combined 1992 subscription price to Surface Science (including Surface Science Letters), Applied Surface Science and Surface Science Reports: US $ 5093.00 / Dfl. 10,287.00

Ultramicroscopy
Volumes 42-46 in 20 issues. Price: US $ 894.00 / Dfl. 1805.00

The Dutch Guilder price (Dfl.) is definitive. The US $ price is for your guidance only as same is subject to exchange rate fluctuations. Subscribers in Japan should add 25% surcharge on the postage, packing and handling charges for SAL delivery of issues. Journals are sent by Surface Mail to all countries except to the following where Air Delivery via SAL mail is ensured at no extra cost to the subscriber: Argentina, Australia/New Zealand, Brazil, Hong Kong, India, Israel, Malaysia, Mexico, Pakistan, P.R. China, Singapore, S. Africa, S. Korea, Taiwan, Thailand, USA & Canada. The quoted prices are excluding 6% BTW for subscribers in The Netherlands.

ELSEVIER SCIENCE PUBLISHERS

P.O. Box 103, 1000 AC Amsterdam, The Netherlands

Elsevier Science Publishers, Journal Information Center, PO Box 882, Madison Square Station, New York, NY 10159, U.S.A.

404/j/jnls.chp